**EPA REGISTRATION NUMBER 33025-6** 

## PROCESSING REQUEST

Reg # 330 25- 6 Decision # 5-16295 902 54933	
Description: Omendment/Nothheatin-Changing	
the name of the active inspedient and adding	
Optional Marketing Claims and Sublatel Great triol Size bottle Co packaged with trible Brock.	
trivil Size bottle Co packaged with trible Dich.	
Electronic Label & Letter (see PPLS):  Non Electronic Label & Letter (Scanning required):	
Dated: 04/27/19	
t***Only one label type should be selected***	
Other Materials Sent (see jacket):	
□ New CSF(s) Dated:	
Other:	
File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.	
Reviewer: Mayor Adams  Division: BPPD  Phone: MD-347 8486 Date: 06/27/19	
Division: DYVI)	
Phone: 1 10 > 34 1 8 1 12 Date: 06 14 1 1	



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

June 27, 2019

Georgia Anastasiou, Agent Lamplight Farms, Inc. c/o Lewis & Harrison, LLC 2461 S. Clark St., Suite 710 Arlington, VA 22202

Subject:

Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Changing the name of the active ingredient and Adding optional marketing claims and sublabel for

trial size bottle co packaged with table torch.

Product Name: CleanBurn

EPA Registration Number: 33025-6

Application Dates: 11/16/2018 and 03/05/2019 OPP Decision Numbers: 546225 and 549337

#### Dear Ms. Anastasiou:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration

Page 2 of 2 EPA Reg. No. 33025-6 OPP Decision No. 546225 and 549337

process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Menyon Adams by phone at (703) 347-8496 or via email at adams.menyon@epa.gov.

Sincerely,

Andrew Bryceland, Team Leader Biochemical Pesticides Branch Biopesticides and Pollution Prevention Division (7511P) Office of Pesticide Programs

andrew C. Ruycelow -

Enclosure

#### Master Label

## CLEANBURN

#### Torch Fuel

ACCEPTED 06/27/2019

Decention Lederal Insections: Evaporate and Rodenbade Ad as accented for the pesticide registered under

570 New No. 33025-6

[Alternate Brand Names: TIKI Brand Paradise In Your Backyard Clean Burn with Citronella, TIKI Brand Paradise in Your Backyard Clean Burn BiteFighter Torch Fuel]

Active Ingredient:	
Oil of Citronella*	
Other Ingredients	97%
Total	

#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

NET CONTENTS: [0.25pt/4 fl oz (118mL)] [0.5pt/8 fl oz (236.5mL)] [0.75pt/12 fl oz (354.8mL)] [1pt 2 fl oz/18 fl oz (532mL)] [1qt/32 fl oz (946mL)] [1qt 18 fl oz/50 fl oz (1.48L)] [2qt/64 fl oz (1.89L)] [3qt 4 fl oz/100 fl oz (2.96L)] [1 gal/128 fl oz (3.78L)] [1 table torch; 1 bottle of fuel .25pt/4 fl oz (118 mL)] [1 table torch; 1 bottle of fuel .5pt/8 fl oz (236.5 mL)]

[Product of Singapore Blended and Botted in the USA]
[Table torch: Made in [China][India][Mexico] [Cambodia], Fuel: product of Singapore, bottled in the USA]
Lamplight Farms Inc.
W140 N4900 Lilly Road
Menomonee Falls, Wt 53051-7035

EPA Reg. No. 33025-6 EPA Est. No. 33025-WI-001 ©20##

Read [Entire Label] [All Warnings] [Back Panel] [Bottom Panel] CAREFULLY.
[KEEP OUT OF REACH OF CHILDREN AND PETS.] [NEVER LEAVE A BURNING TORCH
UNATTENDED.] [FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR
PROPERTY DAMAGE.] [DO NOT DRINK.]

Batch code	
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<sup>\*</sup> Contains no less than 0.56% geraniol

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling product and before eating, drinking, chewing gum, using tobacco or using the toilet. **KEEP OUT OF REACH OF CHILDREN [AND PETS].** 

#### First Aid

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on Skin: Take off contaminated clothing, Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### **Environmental Hazards**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### [Physical or Chemical Hazards

M [NOTICE: This product and combustion products emitted when this product is burning can expose you to chemicals including soot, which is known to the State of California to cause cancer. For more information go to <a href="https://www.P65warnings.ca.gov">www.P65warnings.ca.gov</a>. ] [Contains plant based Methyl Esters.]

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

FOR OUTDOOR USE ONLY. Remove cap. Pour directly from bottle into [vessel], [canister], [burner]. [Store and dispense fuel from original container into vessel.] Wipe away excess fuel before lighting. Replace cap [after each use to prevent accidental ingestion.] [Failure to follow warnings and instructions may result in serious injury or property damage.] [DO NOT use product under the influence of drugs or alcohol] [DO NOT add fuel to burner when it is burning or hot.] [IMPORTANT: DO NOT allow fuel to come in contact with any surface.] [Fuel may damage plastic and other finishes.] Follow all torch manufactures instructions for use. [Retain these instructions for future use].

#### STORAGE AND DISPOSAL

Pesticide Storage: Store upright, away from heat or open flame. Container disposal: If empty: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### **Optional Marketing Claims**

- Proven Mosquito Repellency
- [Keeps mosquitoes away]
- [Filled with citronella [torch fuel]]
- [Perfect for use [in backyards] [around pools]]
- [Burns for hours]

#### Optional Marketing Claims - continued

- [[For best results] use one or more torches in still air]
- [[Torch] Fuel cartridge [bottle] [container]]

- [Contains citronella [torch] [fuel]]
- [Repels mosquitoes, (gnats) and other [flying) insects]
- [Repels mosquitoes]
- [Citronella torch fuel]
- [Plant Based\* \*85% Plant Based]
- [Petroleum Free]
- [No More Smoky Mess!]
- [[Create] [A] [Convenient] Paradise In Your Backyard]
- [For use in TIKI® Brand torches]
- [[For best results] Use in TIKI® brand torches]
- [For best results use several torches [around an area] [to surround an area] [throughout your backyard]]
- [[For best results] [properly] refill torch canister when it is 2/3 empty]
- [No Smoky Mess]
- [Traditional Tabletorch & Fuel]
- [Clean Burn]
- [TIKI® Brand Clean Burn System]
- [[Trial] Fuel Included]
- [includes [Trial] Fuel [Trial]]
- [X Hours of Fuel Included]
- [Comes with [Clean Bum<sup>TM</sup> Torch] Fuel]
- [Keep[s] away uninvited quests [that buzz and bite]]
- [Slapping a mosquito is great. Not having to is better]
- [Dramatically less [soot] [and] [smoke]]
- [Repel mosquitos, Attract guests]
- [Reclaim your backyard]
- [Do not let mosquitos share your yard this year]
- [Invite the neighbors uninvite the mosquitos]
- [Inviting guests also requires uninviting mosquitos]
- [It's time to take back your yard]
- [Take back your backyard]
- [Sharing a meal is better than being one]
- [Declare your yard a no-fly zone]
- [Don't let mosquitos ruin a perfectly good sunset]
- [[It is] [It's] like an unwelcome mat for mosquitos]
- [Because mosquitos can't read a no trespassing sign]
- [Sorry mosquitos, invitation only]
- [Invite family, not mosquitos]
- [Invite friends, not mosquitos]
- [Let mosquitos know they [are not] [aren't] welcome]
- [Stop sharing your yard with mosquitos]
- [Avoid mosquitos, not the backyard]
- [Mosquitos, this is your eviction notice]
- [The best kept secret to outdoor entertaining]
- [Share an evening with friends, Not Mosquitos]
- Take a holiday from mosquitos.]
- [Keep mosquitos far[, far, far, far, far, far] away.]
- [How backyards fight back.]
- [Keep away hungry mosquitos[with Clean Burn BiteFighter Torch Fuel.]]
- [Protect your yard against mosquitos.]
- [Clean Burn BiteFighter repels mosquitoes, so you can give your blood to a better cause.]
- [Don't be dinner.] [Keep mosquitos far away].
- [Your family isn't an all-you-can-eat buffet.] [Keep mosquitos far away.]

Note: Bold, Italicized text is information for the reviewer and is not part of the label.

- [Your ankles aren't appetizers.] [Keep mosquitos far away.]
- [Mosquitos are jerks,] [Keep mosquitos far away with Clean Burn BiteFighter Torch Fuel.]
- [Mosquitos are jerks.] [Mosquitos think it's ok to lay 300 eggs in your kiddie pool.] [All the more reason to keep them away.]
- [Mosquitos are jerks.] [Mosquitos bite you in the face, making it look like you have a zit.] [All the more reason to keep them away.]
- [Mosquitos are jerks.][ Mosquitos bite you so they can give birth to more mosquitos that will bite you.] [All the more reason to keep them away.]
- [Mosquitos are jerks.] [Mosquitos never thank you for dinner.] [All the more reason to keep them
- [Mosquitos are jerks.] [Mosquitos ruin all the prettiest sunsets.] [All the more reason to keep them
- [It's a great big world out there.] [Make sure your grad doesn't get eaten alive.] [Celebrate and keep mosquitos away.]
- [Stock up on mesquite, not mosquitos.] [Cook out on Memorial Day and keep mosquitos away.]
- [Mosquitos like you medium rare.] [Cook out on Memorial Day and keep mosquitos away.]
- [Your mom doesn't need anything else sucking the life out of her.] [Celebrate Mother's Day and keep mosquitos away.]
- [No more mosquitos. No more socks with sandals.] [Celebrate Father's Day with exposed ankles.]
- [The mosquitos are coming! The mosquitos are coming!] [Celebrate 4th of July and keep mosquitos away.]
- [Don't get 1,116 mosquito bites.] [Celebrate 4th of July and keep mosquitos away.]
- [See ya suckers.] [How backyards fight back,] [Clean Burn BiteFighter Torch Fuel provides proven mosquito repellency.)
- [Adios mosquitos.] [How backyards fight back.] [Clean Burn BiteFighter Torch Fuel provides proven mosquito repellency.]
- [Beat it skeeters.] [How backyards fight back,] [Clean Burn BiteFighter Torch Fuel provides proven mosquito repellency.]
- [Buzz off.] [How backyards fight back.] [Clean Burn BiteFighter Torch Fuel provides proven mosquito repellency.]

[Questions or comments Call 1-888-473-1088] for visit our website at www.tikibrand.com,] [Customer service 1-888-473-1088]

Tiki® & Clean Bum™ are trademarks of Lamplight Farms Inc.]

#### Sub-label A - Trial Size Fuel Bottle sold with a Tiki Torch

Not for individual retail sale — Bottle will be packaged within secondary package along with torch. Required and selected optional master label content will be presented on or included with secondary package. Due to the small package size, reduced labeling content will included on the trial sized fuel bottle as described in chapter 18 of the EPA Label Review Manual. Minimum content that will be included listed below. Other text from the master label <u>may</u> be included.

#### [CLEAN BURN TORCH FUEL]

[Alternate Brand Names: [TIK! Brand Paradise In Your Backyard Clean Burn with Citronella] [TIK] Brand Paradise in Your Backyard Clean Burn BiteFighter Torch Fuel]]

Active Ingredient:	
Oil of Citronella*	
Other Ingredients	
Total	

Contains no less than 0.56% geraniol

#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

Read [Entire Label] [All Warnings] [Back Panel] [[Instructions] [Precautionary Material] [Directions for Use] [Included [With] [In] [on] [Packaging] CAREFULLY.

EPA Reg. No. 33025-6 EPA Est. No. 33025-WI-001, ©20##

#### OPTIONAL LANGUAGE that will appear on the torch

[TIKI Brand Paradise in your backyard [glass] [metal] [bamboo] [ceramic] [garden] [table] [tabletop] torch] [outdoor table torch]

[Product of Singapore Blended and Botted in the USA]
[Table torch: Made in [China][India][Mexico] [Cambodia], Fuel: product of Singapore, bottled in the USA]
Lamplight Farms Inc.
W140 N4900 Lilly Road
Menomonee Falls, WI 53051-7035
EPA Reg. No. 33025-6
EPA Est. No. 33025-WI-001

#### [CAUTION]

[DO NOT use product while under the influence of drugs or alcohol]
[Keep out of reach of children and pets]
[For outdoor (tabletop) use only]
[Read complete instructions [and warnings] provided with product [prior to use]]
[DO NOT move vessel while burning]

CLEANBURN EPA Reg. No. 33025-6

[NEVER leave a flame unattended]

[Read warnings on torch fuel container carefully]

[Read torch fuel warnings carefully]

[NEVER leave a burning torch unattended] [Failure to follow warnings and instructions may result in serious injury or property damage]

[Use only TIKI Brand Fuels - DO NOT use gasoline or other flammable fuels]

[Use only in well-ventilated area. Do not use in windy conditions]

[Use only TIKI Brand Wicks]

[DO NOT tip torch as fuel can spill and cause fire are serious injury]

[DO NOT place torch under covered shelter or umbrellas, near pedestrian traffic or combustibles] [such as] [wood structures] [fuel] [clothing] [or] [vegetation].

#### [Instructions for use:]

[INSTALLING:] [Place on temperature safe surface.]

[FILLING] [Unscrew metal cap and wick assembly from the torch and fill with TIKI Brand Torch Fuel.] [Fill torch ¾' from top] [DO NOT OVERFILL.] [Reattach metal cap and wick assembly to torch.] [DO NOT OVERTIGHTEN.]

[LIGHTING:][Wipe away any spilled fuel before lighting.] [Allow wick to become saturated with fuel.] [Exposed wick should be no higher than [½"] [3/4"]] [Keep clothing, hair and face away from flame when lighting.

[EXTINGUISHING:] [Using the snuffer cap that is attached to the torch, carefully place completely over wick until flame is extinguished.] [Place snuffer cap over wick to protect from elements.] [Allow to cool for 30 minutes before handling and refilling]

[©20xx Lamplight Farms Inc., [W140 N4900 Lilly Rd.,] Menomonee Falls WI 53051] [Tiki® & PARADISE IN YOUR BACKYARD are trademarks of Lamplight Farms Inc.] [Customer Service: 1-888-473-1088]

#### Sub-label B - Trial Size Fuel Bottle

not for individual retail sale –Due to the small package size, reduced labeling content will included on the trial sized fuel bottle as described in chapter 18 of the EPA Label Review Manual. Minimum content that will be included listed below. Other text from the master label may be included.

#### [CLEAN BURN TORCH FUEL]

[Alternate Brand Names: [TiKl Brand Paradise In Your Backyard Clean Burn with Citronella] [TiKl Brand Paradise in Your Backyard Clean Burn BiteFighter Torch Fuel]]

Active Ingredient:	
Oil of Citronella*	3%
Other Ingredients	97 <u>%</u>
Total	

<sup>\*</sup> Contains no less than 0.56% geraniol

#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

Read [Entire Label] [All Warnings] [Back Panel] [[Instructions] [Precautionary Material] [Directions for Use] [Included [With] [In] [on] [Packaging] CAREFULLY.

EPA Reg. No. 33025-6 EPA Est. No. 33025-WI-001, ©20##

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

March 26, 2019

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

CHRISTINA SWICK LEWIS & HARRISON, LLC LAMPLIGHT FARMS, INC. 2461 SOUTH CLARK STREET, SUITE 710 ARLINGTON, VA 22202-

PRODUCT NAME: Cleanburn

COMPANY NAME: LAMPLIGHT FARMS, INC.

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 33025-6 EPA RECEIPT DATE: 03/05/19

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Biologicals & Pollution Prevention Division, PM Team 91, at 703-305-6928.

Sincerely,

Front End Processing Staff Information Services Branch

Information Technology & Resources Management Division

# Fee for Service {10323086~

This package includes the following	for Division				
<ul><li>New Registration</li><li>Amendment</li></ul>	○AD ●BPPD ○RD				
□ Studies? □ Fee Waiver? □ volpay % Reduction:	Risk Mgr. 91				
Receipt No. S- EPA File Symbol/Reg. No. Pin-Punch Date:	1032308 33025-6 3/5/2019				
This item is NOT subject to  Action Code:  Requested: 300  Granted: 300  Amount Due: \$	Parent/Child Decisions:				
☐ Inert Cleared for Intended Use ☐	Uncleared Inert in Product				
Reviewer: Gira Bumett	Date: 3/25/219_				

## LEWIS & HARRISON

2461 S. Clark St., Suite 710 Arlington, VA 22202

telephone 202,393,3903 fax 202,393,3906

Consultants in Government Affairs

March 5, 2019

E-Submission

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) US Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

ATTENTION:

Andrew Bryceland

Biopesticides and Pollution Prevention Division

SUBJECT:

Lamplight Farms, Inc.

CLEANBURN (EPA Reg. No. 33025-6) Non-PRIA - Minor Label Amendment

Dear Mr. Bryceland:

On behalf of Lamplight Farms, Inc., I am submitting a minor label amendment for the product CLEANBURN (EPA Reg. No. 33025-6). The purpose of this amendment is to:

- Add an Environmental Hazards statement as requested by the California Department of Pesticide Regulation;
- Add optional marketing language; and,
- Add sub-labels for trial size bottles and bottles co-packaged with table torches.

Enclosed please find the following documents in support of this submission:

A. Application for Pesticide Form; and,

B. PDF copy of the label with changes highlighted

C. PDF copy of the revised label.

If you have any questions, or require any additional information, please feel free to contact me at 202-393-3903 ext. 116 or cswick@lewisharrison.com.

Sincerely,

Christina M. Surck

Christina M. Swick

Agent for,

Lamplight Farms, Inc.

cc:

Bill Tobin (Lamplight)



Please read instructions on reverse be	fore completing form.		Form Approved, OMB No. 2070-0060, Approval expires 05-31-98				
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33025-6			v Bryceland		••••••••••••••••••••••••••••••••••••••		
Company/Product (Name)     CLEANBURN		PM# BPPD			None Restricted		
Name and Address of Applicant Lamplight Farms, Inc.	Include ZIP Code)				th FIFRA Section 3(c)(3)		
c/o Lewis & Harrison, LLC			my product is simila	ar or identical in	composition and labeling		
2461 S. Clark St., Suite 710		to:	Reg. No				
Arlington, VA 22202			ct Name:		•		
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Amendment – Explain below.			Final printed lab	els in response to	Agency letter dated		
Resubmission in response to	Agency letter dated		Me Too" Applic	ation			
Notification - Explain below.			Other - Explain				
Explanation: Use additiona	I page(s) if necessar	y. (For Sect	ion I and Section II.	)			
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Name		Title	B		elephone No. (Include Area Code)		
Christina Swick, Lewis & Harriso	on, LLC,		Agent		202-393-3903 x. 116		
	Certific	ation			6. Date Application		
I certify that the statements i have acknowledge that any knowingly fa under applicable law.	made on this form and all	attachments th	ereto are true, accurate shable by fine or impriso	and complete. I enment or both	Received (Stamped)		
2. Signature		3. Title					
l _ *	unde		Agent				
	SU CAL	5. Date					
4. Typed Name Christina Swi	ck	5. Date	March 5, 2019				

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

DOCUMENTUM

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Jandra Mipy.M.

# LEWIS & HARRISON

2461 S. Clark St., Suite 710 Arlington, VA 22202

telephone 202,393,3903 fax 202,393,3906

Consultants in Government Affairs

November 16, 2018

E-Submission

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) US Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

ATTENTION:

Andrew Bryceland

**Biopesticides and Pollution Prevention Division** 

SUBJECT:

Lamplight Farms, Inc.

CLEANBURN (EPA Reg. No. 33025-6)

Notification per PR Notice 98-10

Dear Mr. Bryceland:

On behalf of Lamplight Farms, Inc., I am submitting a notification for the product CLEANBURN (EPA Reg. No. 33025-6). The purpose of this notification is to change the name of the active ingredient from "Citronella Oil" to "Oil of Citronella". These common names are used interchangeably for this active ingredient and are both listed in the OPPIN database.

Enclosed please find the following documents in support of this submission:

A. Application for Pesticide Form; and,

B. PDF copy of the label with changes highlighted

C. PDF copy of the revised label.

If you have any questions, or require any additional information, please feel free to contact me at 202-393-3903 ext. 119 or georgia@lewisharrison.com.

Sincerely,

Georgia anassasion

Georgia Anastasiou

Agent for,

Lamplight Farms, Inc.

cc:

Bill Tobin (Lamplight)

Please read instructions on reverse bef	ore completing form.		Form Approve	d, OMB No. 207	70-0060, Approval expires 05-31-98		
₽ EDV	United States		☐ Regist		OPP Identifier Number		
S EPA En	vironmental Protecti	ion Agenc					
-	Washington, DC 20		✓ Other:	411011			
	Applica	tion for Pe	esticide - Section				
Company/Product Number			Product Manager		Proposed Classification		
33025-6		Andrew	/ Bryceland		J. Flopodia Giagoliaga.		
Company/Product (Name)     CLEANBURN		PM# BPPD			None Restricted		
<ol> <li>Name and Address of Applicant (In Lamplight Farms, Inc.</li> </ol>	nclude ZIP Code)				with FIFRA Section 3(c)(3)		
c/o Lewis & Harrison, LLC		(b)(l), r	my product is simile	ar or identical	I in composition and labeling		
2461 S. Clark St., Suite 710 Arlington, VA 22202			Reg. No				
		Produc	ct Name:				
Check if this is a new address					· <u> </u>		
		Section	on - II				
Amendment - Explain below.			Final printed lab	els in response	to Agency letter dated		
Resubmission in response to A	gency letter dated		Me Too" Applica				
Notification - Explain below.			Other - Explain I				
Explanation: Use additional		,		,			
Notification is to change							
This notification is consistent with							
been made to the labeling or the 1001 to willfully make any false	confidential statement of statement to EPA. I file	af Jarmuia oj Albor unders	f this product. I unue	ersiana inacu Partian in not c	is a violation of 16 (1.5.C. sec.		
Notice 98-10 and 40 CFR 152.4	6 this product may be i	riner under n violation of	CEIFRA and I may b	e vuhiect to en	Sorement action and penalties		
			and 14 of FIFRA	e suojec,	Joi Comerci desion and particular		
		Sectio	on - III				
Material This Product Will Be Pac Child-Resistant Packaging			11 1 - Calubia Pack		o Torre - Container		
Child-Resistant Packaging Yes*	Unit Packaging Yes		Water Soluble Pack Yes	aging	Type of Container     Metal		
⊠ No	No No		No Yes	i	☐ Metal		
<u> </u>	If "Yes"	No. per	If "Yes"	No. per	Glass		
*Certification must	Unit Packaging wgt.	container	Package wgt.	container	Paper		
be submitted					Other (Specify)		
3. Location of Net Contents Informa	ition 4. Size(s)	Retail Contain			of Label Directions		
☐ Cont	tainer	2- 128 fl.		On Lab			
				On labe	eling accompanying product		
Manner in Which Label is Affixed		• ,	Other				
		r glued äled					
	Section - IV						
1. Contact Point (Complete items dir	rectly below for identificatio	n of individual	to be contacted, if nece	ssary, to proces	s this application)		
Name	Tit	itle			Telephone No. (Include Area		
Georgia Anastasiou, Lewis & Harr	ison, LLC,		Agent		Code) 202-393-3903 x. 119		
	Certificat	tion			6. Date Application		
I certify that the statements I have m	nade on this form and all att	tachments there			Received		
acknowledge that any knowingly fals under applicable law.	se or misleading statement	may be punish	nable by fine or imprison	iment or both	(Stamped)		
2. Signature		3, Title			$\dashv$		
4)		0, 11	Agent				
Stagna Anavasion							
4. Typed Name		5. Date	N 46 2016		7		
Georgia Anastasi		November 16, 2018					

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original) Yellow- Applicant Copy

# PROCESSING REQUEST

Reg # 33075-6 I	Decision # 534 726
Description: New Produc	
Electronic Label & Letter OR (see PPLS):	Non Electronic Label & Letter (Scanning required):
Dated: MININ	□ Dated:
***Only one label type s	hould be selected***
Other Materials Sent (see jac	ket):
New CSF(s) Dated: 02 06 70	810
Other:	
File this coversheet and attached materials in and clipped together, NOT STAPLED. Then gi materials to staff in the Information Services acket is full or only available as an image, pl pring it down to the (ISC). For further inform	ive the jacket with the coversheet and Center (ISC) (Room S-4900). If a ease file materials in a new jacket and
Reviewer: Menya & HAM	5
Division: BPP)	
Phone: 103 347-8491	Date: 18/17/18



#### U.S. ENVIRONMENTAL PROTECTION AGENCY.

Office of Pesticide Programs

Biopesticides and Pollution Prevention Division (7511P)

1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

#### NOTICE OF PESTICIDE:

X Registration

\_\_\_\_Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuauce:

33025-6

8/17/2018

Term of Issuance:

Unconditional

Name of Pesticide Product:

Cleanburn

Name and Address of Registrant (include ZIP Code):

Lamplight Farms, Inc.

4900 North Lilly Road

Menomonee Falls, Wisconsin 53051

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

- Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
- 2. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 33025-6."

Signature of Approving Official:

Andrew Bryceland, Team Leader Biochemical Pesticides Branch

Biopesticides and Pollution Prevention Division (7511P)

Office of Pesticide Programs

EPA form 8570-6

Date:

8/17/2018

Page 2 of 2 EPA Reg. No. 33025-6 OPP Decision No. 534726

3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statements of Formula (CSFs):

- Basic CSF dated 02/06/2018
- Alternate CSF #1 dated 02/06/2018

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Menyon Adams of my team by phone at (703) 347-8496 or via email at adams.menyon@epa.gov.

Sincerely.

Andrew Bryceland, Team Leader Biochemical Pesticides Branch Biopesticides and Pollution Prevention Division (7511P)

andrew C. knycelow

Office of Pesticide Programs

Enclosure

#### Master Label

## CLEANBURN

#### Torch Fuel

[Alternate Brand Names: TIKI Brand Paradise in Your Backyard Clean Burn with Citronella, TIKI Brand Paradise in Your Backyard Clean Burn BiteFighter Torch Fuel]

Active Ingredient:	
Citronella Oil*	
Other Ingredients	97 <u>%</u>
Total	100%

\* Contains no less than 0.56% geraniol

KEEP OUT OF REACH OF CHILDREN

#### CAUTION

ACCEPTED

08/17/2018

Under the Federal insecticide, Fungicide and Rodenligide Act as amended, for the pesticide registered under EPA Reg. No. 33025-6

NET CONTENTS: [1pt 2 fl oz/18 fl oz (532mL)] [1qt/32 fl oz (946mL)] [1qt 18 fl oz/50 fl oz (1.48L)] [2qt/64 fl oz (1.89L)] [3qt 4 fl oz/100 fl oz (2.96L)] [1 gal/128 fl oz (3.78L)]

Product of Singapore, Blended and Botted in the USA Lamplight Farms Inc. W140 N4900 Lilly Road Menomonee Falls, WI 53051-7035

EPA Reg. No. 33025-A EPA Est. No. c20##

Read [Entire Label] [All Warnings] [Back Panel] CAREFULLY. [KEEP OUT OF REACH OF CHILDREN AND PETS.] [NEVER LEAVE A BURNING TORCH UNATTENDED.] [FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE.] [DO NOT DRINK.]

Batch	rode	
Date	COUL	

CLEANBURN EPA Reg. No. 33025-A

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling product and before eating, drinking, chewing gum, using tobacco or using the toilet, KEEP OUT OF REACH OF CHILDREN IAND PETSI.

#### First Aid

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### Physical or Chemical Hazards

▲ NOTICE: This product and combustion products emitted when this product is burning can expose you to chemicals including soot, which is known to the State of California to cause cancer. For more information go to <a href="https://www.P65warnings.ca.gov">www.P65warnings.ca.gov</a>. [Contains plant based Methyl Esters.]

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

FOR OUTDOOR USE ONLY. Remove cap. Pour directly from bottle into [vessel], [canister], [burner]. [Store and dispense fuel from original container into vessel.] Wipe away excess fuel before lighting. Replace cap [after each use to prevent accidental ingestion.] [Failure to follow warnings and instructions may result in serious injury or property damage.] [DO NOT use product under the influence of drugs or alcohol] [DO NOT add fuel to burner when it is burning or hot.] [IMPORTANT: DO NOT allow fuel to come in contact with any surface.] [Fuel may damage plastic and other finishes.] Follow all torch manufactures instructions for use.

#### STORAGE AND DISPOSAL

Pesticide Storage: Store upright, away from heat or open flame. Container disposal: If empty: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### Optional Marketing Claims

- Proven Mosquito Repellency
- [Keeps mosquitoes away]
- [Filled with citronella [torch fuel]]
- [Perfect for use [in backyards] [around pools]]
- iBurns for hours!
- [[For best results] use one or more torches in still air]
- [[Torch] Fuel cartridge [bottle] [container]]
- [Contains citronella [torch] [fuel]]
- [Repels mosquitoes, [gnats] and other [flying] insects]
- [Repels mosquitoes]
- [Citronella torch fuel]
- [Plant Based\* \*85% Plant Based]
- [Petroleum Free]

CLEANBURN EPA Reg. No. 33025-A

#### Optional Marketing Claims - continued

- [No More Smoky Mess!]
- [[Create] [A] [Convenient] Paradise In Your Backyard]
- [For use in TIKI<sup>®</sup> Brand torches]
- [[For best results] Use in TIKI<sup>®</sup> brand torches]
- [For best results use several torches [around an area] [to surround an area] [throughout your backyard]]
- [[For best results] [properly] refill torch canister when it is 2/3 empty]
- [No Smoky Mess]
- [Traditional Tabletorch & Fuel]
- [Clean Burn]
- [TIKI® Brand Clean Burn System]

[Questions or comments Call 1-888-473-1088] [or visit our website at www.tikibrand.com.] [Customer service 1-888-473-1088] [Tiki® & Clean Burn™ are trademarks of Lamplight Farms Inc.]

New duct Registration/Existing Product Rest Track PRIA Actions B650 , B660 , B670 , B680 , B710 , B720 Amendment

Fas	t Track □ PRIA Actions B650 □, B660 □, B670 □, B680 □, B710 □, B720 □, B730 □, B880 □    3300	∃ & B90	00 EPA
x	Check list Item	Yes	No
1.	Application Form (EPA Form 8570-1) - signed & complete including package type? IF NO, STOP! Call applicant and have them correct application and resubmit.	P	
2.	If amendment, was final printed labeling received for previous action? IF NO, STOP! E-mail applicant and request final printed labeling.		
3.	Confidential Statement of Formula (CSF) EPA Form 8570-4 Basic Formula x 1 Alternate Formul	a(s) 🗆 🕽	<del>/</del>
a.	CSF Review completed? IF YES, SKIP to ITEM 4.	0	
b.	CSF is signed and dated? IF NO, CALL APPLICANT.	4	
c.	Completely filled out: CAS numbers, pH, flashpoint, flammability, if applicable?	10	
d.	Are the totals accurate?	4	
e.	Certified limits agree with 40 CFR 158.175? Note that if preliminary or 5 batch analysis differ from Section 158.175(b), limits based on batch analysis would need to be proposed under Section 158.175(c).	<u> </u>	
f.	Viability (if live microbial, i.e., cfu/gram)?	1	
g.	PC codes assigned on CSF for actives & inerts plus 40 CFR 180.910, 180.920, and 180.930 codes noted for products that have food or feed uses?	Y	
h.	List 1 inert ingredient(s) present in the formulation? If YES, be sure it is listed on the label.		ريز
i.	Alternate formula(s) do not require different labeling from basic CSF or other alternate CSFs per 40 CFR 152.43(b)(3).	$\varphi$	
j.	Source for a.i. is a registered pesticide? (When a proposed alternate or new basic formula involves a new registered manufacturing-use product as the active ingredient source it must be determined whether the manufacturing-use products used to formulate are similar enough to warrant use of existing product specific data such as acute toxicity.)	9	
k.	Does CSF list peanuts, tree nuts, milk, soybeans, eggs (including putrescent eggs), fish, crustacea, or wheat commodities? <b>If YES</b> , RAL must evaluate label directions for compliance with 40 CFR 180.1071.		6
4.	Data and Data Matrix present. (EPA Form 8570-35)	اللا	
a.	a) Using Selective Method? [IF NO, SKIP to ITEM 5 since data matrix required for selective method.]	,	
b.	Complete Data Matrix supporting both the product registration and, if applicable, the proposed amendment. Minimum Data Matrix for registration includes: product specific acute toxicity, product chemistry, and efficacy data for public health pests claimed on label.		
c.	Adequate product specific data submitted?		
d.	Registered source used for active ingredient? IF YES, SKIP to ITEM 5. (If active ingredient is from a registered source (manufacturing-use product), generic data should be satisfied by registered source.) If NO or if use not supported by registered source, generic data is necessary.		
e.	Data passed PR Notice 86-5 for formatting and MRID number assignment?		
f.	Public copy of Data Matrix provided? (PRN 98-5)	<u> </u>	
5.	Certification with Respect to Citation of Data (EPA Form 8570-34): See 40 CFR 152.80-98 and P [Note: If no data are required or submitted, form is not needed. This is often true for minor amendments.]	R Notice	98-5
a.	Did applicant check a Method of Support?		
b.	General Offer to Pay checked for Cite-all Method or Cite-all under Selective Method?	ļ	
c.	Is the form signed and dated?	<del></del> _	
d.	Check form and Data Matrix; are Exclusive Use data cited from other sources?	<del> </del>	
e.	IF YES, is the required authorization letter included in application?	L	<u> </u>
6.	Formulators Exemption (EPA Form 5870-27)	Ι	
a.	If registrant is using a registered source active ingredient in the formulation (manufacturing-use product), is form filled out completely and signed?  NA   NA		

#	Check list Item	Yes	No
7.	Exclusive Use Notice Requireme Prior to Registration (Required per 4 R 152.116, separate from permission of an exclusive use data submitter to rely on exclusive use data)		
	Is this an exclusive use active ingredient or mix of active ingredients (registered w/in last 10 yrs)?  If YES, go to a) or b) below.		
a.	a) Has a notification of intent to register letter or email been sent to the exclusive use data submitter(s) at least 30 days before registration? (This notification is required for all methods of data support except when the exclusive use data submitter(s)' product is used to formulate and the formulator's exemption is claimed.)		
Ъ.	Has exclusive use data submitter requested during 30 day period the applicants' list of data requirements and method of compliance?		
c.	Has registrant submitted certification from exclusive use data submitter that submitter is aware of the application and does not object to the registration?		
8.	Science Review completed? Comments:		
9.	Label(s) Review Date of Label Review:		
a.	Label(s) in conformance with current Label Review Manual and appropriate REDS.		
b.	Labeling statements and claims are supported by Acute Toxicity, Product Chemistry data (or acceptable waivers).  Acceptable efficacy studies support public health pests claimed on label.		
c.	Nominal concentration of active ingredient shown in ingredients statement.		·
d.	Viability included as sub-statement of Ingredient Statement (if live microbial, i.e., cfu/gram).		
e.	Storage and disposal instructions agree with container types listed on application form.		
f.	Unique Product Name for Same Company (Check OPPIN).		
g.	Does CSF list peanuts, tree nuts, milk, soybeans, eggs (including putrescent eggs), fish, crustacea, or wheat commodities? If YES, RAL must evaluate label use directions for compliance with 40 CFR 180.1071.		
h.	Does label bear "National Organic Program" (PR Notice 2003-1) or OMRI claims?		·
	If YES, National Organic Program or OMRI claims approved by Chris Pfeifer?  NA □		
i.	Labeling is acceptable. Corrections or changes are NOT necessary.		
j.	Does the label bear any (industrial) hemp, cannabis, or marijuana uses?     If YES, have the registrant remove. Cannabis, Hemp and/or marijuana shall not be on any label     Also look for "medicinal plants," "medical plants," "aromatic plants" or other like undefined terms on the label - these terms could cleverly allow applications to marijuana		
k.	Are DERs attached?		
1.	Comments:		
	al RPPD Guidance Document - Other Items May be Required	July 200	



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

#### OFFICE OF CHEMICAL SAFETY AND POLUTION PREVENTION/OFFICE OF PESTICIDE PROGRAMS

#### **MEMORANDUM**

**DATE:** 08/09/2018

SUBJECT: Science Review in support of registration of new end-use product, Cleanburn,

containing 3% w/w Citronella oil as its active ingredient from unregistered source.

**Decision Number:** 

534726

DP Number:

445771 33025-A

EPA File Symbol Number:

Biochemical

Chemical Class: PC Code:

021901 8000-29-1

CAS Number:

Citronella oil

Active Ingredients: Tolerance Exemptions:

Non-food

MRID Numbers:

505214-01thru 505214-09

FROM:

Clara Fuentes, PhD.

Entomologist

Risk Assessment Branch

Biopesticides & Pollution Prevention Division (7511P)

THRU:

Catherine Eiden, Senior Advisor

Risk Assessment Branch

Biopesticides & Pollution Prevention Division

TO:

Menyon Adams, Regulatory Action Leader

Biochemical Pesticides Branch

Biopesticides & Pollution Prevention Division (7511P)

#### ACTION REQUESTED

Lewis & Harrison Consultants in Government Affairs on behalf of Lamplight Farms, Inc. is requesting registration of a citronella-based mosquito repellent, Cleanburn, containing an unregistered source of active ingredient, Citronella oil, corresponding to the commercial variety "Java," extracted from *Cymbopogon winterianus*. The registrant is fulfilling product chemistry data requirements for the unregistered active ingredient in Cleanburn with data previously submitted for registration of similar product, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). The source for the oil of citronella in Monarch 1101A and Clearburn is identical. The source of Citronella in Cleanburn remains unchanged from the time of the original registration of Monarch 1101A, and thus the registrant is bridging to MRIDs 486497-01, 486497-03, and 417857-03 respectively, for Manufacturing process of the active ingredient, Citronella oil, Discussion on formation of impurities; Enforcement analytical method that was employed for quantification of Citronella oil present in Monarch 1101A, and Physical/Chemical characteristics of Citronella oil Technical. The registrant references MRID 486497-02 in MRID 503898-02 for Preliminary Analysis of Citronella oil that was conducted for registration of Monarch 1101A.

Data on Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Cleanburn, is provided in MRID 503898-01. Data on Physical/Chemical Characteristics of enduse product, Cleanburn, is provided in MRID 503898-03.

Tier I acute mammalian toxicity for the end-use product, Cleanburn, has been addressed with data in MRID 503898-05 for Acute oral; MRID 503898-06 for Acute eye irritation, and MRID 503898-07 for Acute dermal irritation.

Tier I acute mammalian toxicity for the active ingredient, Citronella oil, has been addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These toxicity studies correspond to Citronella oil, commercial variety "Java."

Tier I subchronic mammalian toxicity data, required for the active ingredient supplied from unregistered source, have been addressed with rationale in MRID 503898-11 for waiving further studies. MRID 503898-11 references mutagenicity data in MRIDs 417857-01 and 417857-02, and Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105) with references therein.

Non-target organisms' data requirements are addressed by bridging to data on Acute oral toxicity with Northern Bobwhite Quail (*Colinus virginianus*), A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*), and A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) in MRIDs 417474-09, 417474-10, and MRID 417474-11, respectively.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, is waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

Lastly, product performance data is addressed by the cite all method. In addition, this submission includes copies of product label, CSF for basic and alternate formulations, dated 2/06/2018, and updated data matrix to address deficiencies identified by the Agency in an Agency's deficiency letter, dated on January 29, 2018.

#### **BACKGROUND INFORMATION**

The proposed product, Cleanburn, contains 3% w/w Citronella oil, corresponding to the commercial variety "Java," extracted from *Cymbopogon winterianus*. The source and percent concentration of the active ingredient, Citronella oil (Java variety), present in both, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) and proposed product, Cleanburn, are identical. Thus, the registrant is bridging to product chemistry data submitted for registration of Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) to satisfy product chemistry data requirements for Citronella oil in Cleanburn that is supplied by same unregistered supplier and present at the same concentration as in referenced product, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). Cleanburn is a torch fuel formulation to be used outdoors as space repellent against mosquitoes. Label use directions instruct users to pour the content from the original container into vessel, canister or burner and wipe away any excess before lighting.

#### RECOMMENDATIONS AND CONCLUSIONS

Product chemistry: Acceptable.

1 The registrant has adequately addressed product chemistry data requirements for end-use product, Cleanburn, and its active ingredient, Citronella oil.

Studies classification for product chemistry:

<u>Cited MRID 486497-01</u>, Manufacturing process of the active ingredient, Citronella oil, and Discussion on formation of impurities is acceptable. (Refer to Confidential Appendix for details).

<u>Submitted MRID 503898-02</u>, bridging to MRID 486497-02 for Preliminary Analysis of Citronella oil, is acceptable. (Refer to Confidential Appendix for details).

Cited MRID 486497-03, is acceptable. Enforcement analytical method employed for quantification of Citronelle oil present in Monarch 1101A, containing 3% w/w Citronella oil from same unregistered source as Cleanburn, is suitable for quantification of Citronella oil content in Cleanburn. Citronella oil is present at same concentration in both products, and it is supplied from same unregistered source.

MRID 503898-01, Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Clearburn, is acceptable.

Cited MRID 417857-03, Physical Chemical Characteristics of Citronella oil is acceptable.

MRID 503898-03, Physical/Chemical Characteristics of End-Use product, Cleanburn, is acceptable (Refer to Table 1).

#### Acute Mammalian Toxicity

Tier I Acute mammalian toxicity data for Citronella oil is acceptable. These data requirements have been adequately addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These cited studies correspond to Citronella oil, commercial variety "Java." Citronella oil is categorized under toxicity category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Tier I Acute mammalian toxicity data for end-use product, Cleanburn, has been adequately addressed with data in MRID 503898-05 for acute oral; MRID 503898-06 for acute eye irritation, and MRID 503898-07 for acute dermal irritation.

MRIDs 503898-05, 503898-06 and 503898-07 for Acute oral, Acute Eye irritation, and Acute dermal irritation, respectively, are acceptable.

MRID 503898-11, Study waiver request for Acute dermal, Acute inhalation, and Skin sensitization is acceptable. The registrant's rationale is based on the composition of the formulation (Refer to Confidential Appendix for product composition), use pattern (not for intentional application to human skin), and low toxicity profile of Citronella oil (toxicity category III for acute dermal, and toxicity category IV for acute inhalation and skin sensitization).

MRIDs 505214-01 thru 505214-05 are acceptable. These MRIDs cite Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving Tier I subchronic toxicity studies.

MRID 505214-01 is acceptable. Waiver request for immunotoxicity studies is supported by referenced data in MRIDs 417857-01, and 417857-02. Data in these studies show that Citronella oil is not mutagenic.

MRID 505214-02, is acceptable. Rationale in support of waiving 90-day oral study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, oral exposure is not anticipated.

MRID 505214-03 is acceptable. Rationale in support of waiving 90-day dermal study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, intentional or prolong exposure to the product from application to human skin is unlikely.

MRIDs 505214-04 and 505214-05, are acceptable. Request for waiving 90-day Inhalation and Developmental toxicity studies, respectively, is based on Reregistration Eligibility Decision for Oil of Citronella (CASE 3105). These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), based on the low toxicity profile of Citronella oil (Commercial variety "Java," which is slightly toxic).

#### Non-target organisms:

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus) is acceptable.

Data on required Avian subacute dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by birds is not expected.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*) is acceptable. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) is acceptable. Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, are waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

#### Product performance: Acceptable.

The registrant is resorting to the "cite all" method to satisfy product performance data requirement., The product Cleanburn is substantially similar in composition and use to the currently registered products Monarch 1101A, EPA Reg. No. 33025-3 and Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85.

When Lamplight registered the product Monarch 1101A the "cite-all" method of data support was used for this registration referencing the Cutter Prometheus registration. The original application form and certification with respect to citation of data indicated that Cleanburn was substantially similar to Monarch 1101A. Lamplight is now claiming substantial similarity to Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85. This is the same approach the registrant took for the registration of Monarch 1101A.

The products, Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85), Monarch 1101A (EPA Reg. No. 33025-3), or Cleanburn (EPA File Symbol No. 33025-A) are substantially similar 3% citronella torch fuel products.

#### Note to RAL

The use of "insects" in general as target pest is too broad and it should be removed from the label.

#### STUDIES SUMMARY

TABLE 1. Physical and Chemical Properties for Cleanburn (basic and alternate formulations)			
Guideline Reference No./Property	Description of Result	Methods	
830.6302 Color	N/A	N/A for EP	
830.6303 Physical State	liquid	Visual observation	
830.6304 Odor	N/A	N/A for EP	
830.6313 Stability	N/A	N/A for EP	
830.6315 Flammability	N/A	The product doesn't contain combustible liquids	
830.6317 Storage Stability	65% geraniol after 14 days at 54°C ± 2°C.	Chromatographic analysis Geraniol peak area percent indicates percent geraniol in the product	
830.6319 Miscibility	N/A	The product is not emulsible liquid to be diluted with petroleum solvents.	
830.6320 Corrosion Characteristics	No signs of corrosion were noted on the commercial packing material, polyethylene terephthalate.	Visual inspection	
830.7000 pH	5.37	pH meter	
830.7100 Viscosity	2.5237 mm <sup>2</sup> /s (cSt)	Ubbelohde viscometer	
830.7300 Density/Relative Density/Bulk Density	0.8701 g/mL	CCL SOP 10.16 method	

Data from MRID 503898-03

#### B. Acute Mammalian Toxicity

Table 2. Toxicological Profile of End-Use product, Cleanburn, Basic Formulation

MRID	Guideline	Test	Results_LD50/LC50	Toxicity Category
503898-05	870.1100	Acute Oral Toxicity	>5000 mg/kg	IV .
503898-11	870.1200	Acute Dermal Toxicity	Waiver	Waiver
503898-11	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
503898-06	870.2400	Primary Eye Irritation	Mildly irritating - free of irritation by 72 hours	III
503898-07	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
503898-11	870.2600	Skin Sensitization	Waiver	Waiver

Table 3. Toxicological Profile of End-Use product, Cleanburn, Alternate Formulation

MRID	Guideline	Test	Results	Category
50389808	870.1100	Acute Oral Toxicity	>5000 mg/kg	IV
50389811	870.1200	Acute Dermal Toxicity	Waiver	Waiver
50389811	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
50389809	870.2400	Primary Eye Irritation	Minimally irritating - free of irritation by 48 hours	III
50389810	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
50389811	870.2600	Skin Sensitization	Waiver	Waiver

MRID 503898-11, Data waiver requests for Acute dermal, Acute inhalation, and Skin sensitization are based on the following rationale specific to each data requirement:

#### OCSPP 870.1200 Acute Dermal Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2:

- "2. Required unless test material is corrosive to skin or has a pH between
- < 2 or 11.5 >." The pH of Cleanburn is 5.37.

In addition, under conditions of use, Cleanburn is not expected to result in dermal exposure.

#### OCSPP 870.1300 Acute Inhalation Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 3:

"3. Required when the product consists of, or under conditions of use would result in, a respirable material (e.g., gas, volatile substances, or aerosol particulate)..."

Concerning Test Note 3, Cleanburn is a liquid and does not consist of a respirable material, such as a gas, vapor or particulate.

#### OCSPP 870.2600 Skin Sensitization:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2 & 4:

"2. Required unless test material is corrosive to skin or has a pH between < 2 or 11.5 >."

Concerning Test Note 2, the pH of Cleanburn is 5.37.

Concerning Test Note 4, under conditions of use Cleanburn is not expected to result in repeated dermal exposure.

In addition, the battery of acute mammalian toxicity studies already conducted on Citronella oil show that Citronella oil is of low mammalian toxicity, classified under toxicity category III for acute oral, acute dermal, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Table 4. Toxicological Profile of Citronella oil

Study Type/OCSPP Guideline	LD <sub>50</sub> /LC <sub>50</sub> /Results	Toxicity Category	MRID (Java variety)
Acute Oral Toxicity/OCSPP 870.1100	> 4,860 mg/kg	III	431794-01
Acute Dermal Toxicity/OCSPP 870.1200	> 2,000 mg/kg	III	431671-01
Acute Inhalation Toxicity/OCSPP 870.1300	> 3.1 mg/L	IV	431671-02
Acute Eye Irritation/OCSPP 870.2400	Mild irritant	III	431671-03
Acute Dermal Irritation/OCSPP 870.2500	slightly irritant.	III	431671-04
Skin Sensitization/OCSPP 870.2600	Non- sensitizer	IV	431671-05
Hypersensitivity incidents	None reported		

<sup>&</sup>quot;4. Required if repeated contact to human skin is likely to occur under conditions of use"

The following Tier I Subchronic toxicity data are required for the active ingredient Citronella oil from an unregistered source: OCSPP 870.3100 90-day oral; OCSPP 870.3250 90-day dermal; OCSPP 90-day inhalation; OCSPP 870.3700 Prenatal development, and mutagenicity studies, OCSPP 870.5100 Bacterial reverse mutation test, and OCSPP 870.5300 / 870.5375 *In vitro* mammalian cell assay, The registrant is addressing these data requirements by bridging to data previously submitted for registration of Citronella oil technical (TGAI), and by providing the following rationale in support for waiving further testing:

According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), These data requirements were previously waived by the Agency for the following reasons:

- 1. The acute mammalian studies listed on Table 5, showed no significant adverse effects for various routes of exposure (Toxicity Category III for acute oral, dermal toxicity, acute eye irritation, and acute dermal irritation, and Toxicity Category IV for acute Inhalation and skin sensitization). (Refer to Table 5 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).

Specifically, the registrant has submitted MRIDs 505214-01 thru 505214-05 to address each Tier I subchronic toxicity data requirement individually:

#### MRID 505214-01, Waiver request for immunotoxicity.

The registrant is citing Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving additional immunotoxicity testing. According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), these data were previously waived by the Agency. Cited mutagenicity studies, Salmonella / mammalian microsome reverse mutation assay in MRIDs 417857-01, and *In vitro* Cytogenetic Assay, measuring chromosomal frequencies in Chinese hamster ovary cells in MRID 417857-02, show that Citronella oil is not mutagenic. No increase in the number of histidine revertants per plate with or without S9 (3300 µg/plate/+S9; 1,000 µg/plate/-S9, respectively) were reported in MRID 417857-01, and no chromosomal aberrations in Chinese hamster ovary with or without S9 (150 µg/plate/+S9; 75.5 µg/plate/-S9, respectively) were observed in MRID 417857-02 study.

MRID 505214-02, Waiver request for 90-day oral study is based on the following rationale: According to the regulations in 40 CFR §158.2050, a 90-day oral toxicity study is required if the use pattern of the active ingredient is likely to result in repeated oral exposure to humans. Cleanburn will be used as torch fuel. Therefore, it is not expected that there would be any oral exposure.

MRID 505214-03, Waiver request for 90-day dermal toxicity study is based on footnote #7 per 40 CFR §158.2050. According to the regulations in 40 CFR §158.2050, the data is required if the product is purposely applied to human skin. Cleanburn will be used as torch fuel. Therefore, it is not expected that there will be intentional or prolong exposure to the product from application to human skin.

MRIDs 505214-04 and 505214-05, 90-day Inhalation and Developmental toxicity, respectively. These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105) based on the following rationale:

- The acute mammalian studies listed on Table 5, showed no significant adverse effects by various routes of exposure (Toxicity Category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and toxicity category IV for acute Inhalation and skin sensitization). (Refer to Table 4 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).
- 5. Immunotoxicity data in referenced studies, MRIDs 417857-01 and 417857-02 show that Citronella oil is not mutagenic.

#### C. Non-Target Organisms

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus).

The acute oral LD<sub>50</sub> value for Northern bobwhite quail exposed to oil of citronella as a single oral dosage was greater than 2250 mg/kg. The LOAEL was 2,250 mg/kg. The NOAEL was 1,350 mg/kg, based on the reduction in body weight for all birds at 2250 mg/kg. Based on these values, oil of citronella is classified as Non-toxic to birds via the oral route.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (Oncorhyncus mykiss)

The  $LC_{50} > 17.3$  mg/L is based on nominal concentration of oil of citronella. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (Daphnis magna).

The EC<sub>50</sub> = 26.4 mg/L at 48 hours with 95% CL (13.0 mg - 36.0 mg oil of citronella). Based on these results, Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Data on required Avian dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by birds is not expected

Data on Non-target plants and non-target insects, OCSPP 850.4000 and 850.3020, respectively, have been waived based on minimal exposure to plants and insects given the use pattern of the product and the repellent effect of citronella oil on insects.

<u>Product Performance</u>: No efficacy study on substantially similar products has been found. Therefore, efficacy studies on file are for different products and substantially similar formulations are not suitable for characterizing performance of the Cleanburn product. Product performance data is required for the registration of Cleanburn with a claim of efficacy against mosquitoes.

cc: Clara Fuentes, RAL Menyon Adams, BPPD Chron File, IHAD/ARS FT, PY-S: 08/09/2018.





# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

January 29, 2018

#### CONTAINS CONFIDENTIAL BUSINESS INFORMATION

# BY REGULAR MAIL AND EMAIL RETURN RECEIPT REQUESTED

OPP Decision Number: 534726 EPA File Symbol: 33025-A Pesticide Petition Number: N/A Product Name: Cleanburn

EPA Receipt Date: October 06, 2017

EPA Company Number: 33025

Company Name: Lamplight Farms, Inc.

Georgia Anastasiou Lamplight Farms, Inc D/B/A Lewis & Harrison, LLC 122 C Street, NW Suite 505 Washington, DC 20001

Dear Ms. Anastasiou:

The U.S. Environmental Protection Agency (Agency or EPA) has completed its preliminary technical screening of your application pursuant to Section 33(f)(4)(B)(i)(H) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended by the Pesticide Registration Improvement Extension Act (PRIA 3). The EPA has determined that your application has not passed the preliminary technical screening and therefore is subject to rejection if the application is not corrected.

Specifically, you must provide the data and/or information described in the "Deficiencies" portion of the Confidential Appendix to this letter.

Page 2 of 2 EPA File Symbol No. 33025-A OPP Decision No. 534726

In order for the review of your pesticide product to continue, you will need to correct your application to address the "Deficiencies" items listed in the Confidential Appendix within 10 business days of the date you received this letter. The EPA must receive your correction by the  $10^{th}$  business day. The EPA recommends sending your correction by email to the contact listed below to ensure it is received in a timely manner. If studies or confidential business information are being submitted by mail, a complete courtesy copy, minus confidential information, received by email by the deadline will be considered timely. If you cannot correct the application or do not respond within 10 business days, your application will be rejected. At this time, you could also choose to withdraw your application.

If you have questions concerning this letter, please contact Menyon Adams of my branch by telephone at (703) 347-8496 or via email at adams, menyon are paragov.

Sincerely,

Linda A. Hollis, Chief

1 m Silla.

Biochemical

Biopesticides and Pollution Prevention Division

Office of Pesticide Programs

Enclosure

# **CONFIDENTIAL APPENDIX**

# Deficiencies Noted During the Technical Screen:

EPA File Symbol: 33025-A

### Deficiencies:

Deficiency	Data/Information Submitted	Reason for Inadequacies	What Data/Information are Needed
Subchronic Mammalian Toxicity Requirements per 40 CFR § 158.2050	Subchronic Toxicity data requirements for 90-day oral (OCSPP870.3100), 90-day dermal (OCSPP 870.3250), 90-day inhalation (OCSPP 870.3465), Prenatal development (OCSPP 870.3700), and In vitro mammalian cell assay (OCSPP 870.5300/870.5375) were addressed by making reference to pages 28 thru 29 of EPA Citronella Registration Eligibility Document (RED).	To satisfy the subchronic data requirements, your submission, specifically, data matrix made reference to pages 28 thru 29 of EPA Citronella RED. If you wish to cite to an agency document that summarizes the agency's safety findings on a particular chemical or class of compounds, then you must provide an argument as to why the EPA's findings are relative to the data requirement for the substance for which you seek registration. Discuss why the findings remain relevant and discuss any recent scientific findings/developments/changes (if any) and how those changes are not expected to affect and/ or change what the agency concluded when the agency's safety finding was made.	All data requirements must be submitted in separate data volumes addressing each data requirement separately. Furthermore, you must satisfy the 90-day oral (OCSPP 870.3100), 90-day dermal (OCSPP870.3250), 90-day inhalation (OCSPP 870.3465.) Prenatal development (OCSPP 870.3700), and <i>In vitro</i> mammaliar cell assay (OCSPP 870.5300/870.5375) data requirements with one of the following options:  A. Conduct and submit a guideline study to fulfill the data requirement(s) or:  B. Request a waiver for the data requirement(s). (Note: A waiver means that you are requesting to NOT address the data requirement is not applicable because of x.y.z reasons You MUST state the reason(s) why

Page 2 of 2 EPA File Symbol No. 33025-A OPP Decision No. 534726

Non-target organisms data requirements 40 CFR § 158.2060

Non-target organisms data requirements for Avian Dietary Toxicity (OCSPP 850,2200), Seedling emergence (OCSPP 850,4100), Vegetative vigor (OCSPP 850,4150), Nontarget insect (OCSPP 880,4350) were addressed by making reference to pages 27 thru 28 of EPA Citronella RED. To satisfy the non-target organisms data requirements, your submission, specifically, data matrix made reference to pages 28 thru 29 of EPA Citronella RED. If you wish to cite to an agency document that summarizes the agency's safety findings on a particular chemical or class of compounds, then you must provide an argument as to why the EPA's findings are relative to the data requirement for the substance for

the requirement is not applicable)

C. Address the data requirement(s) by way of a citation(s) to a study(s) from the open scientific literature. The study should be conducted using either the test substance or a substance that is chemically and structurally similar to the test substance. In addition, you must provide a valid scientific rationale as to the findings of the study and a bridging argument. The bridging argument is a rationale that provides the reasons why the study can be bridged to satisfy the data requirement for the test substance. A copy of the published literature upon which you are relying must be provided.

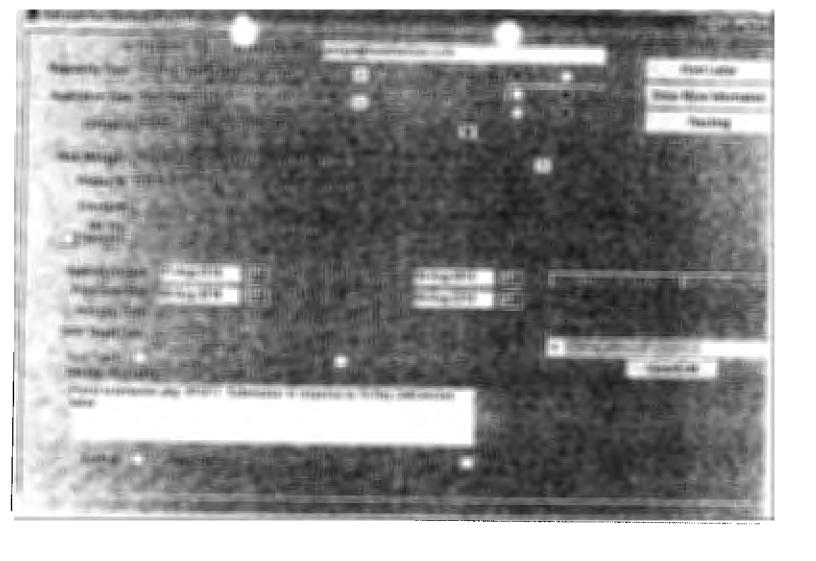
All data requirements must be submitted in separate data volumes addressing each data requirement separately. Furthermore, you must satisfy the Avian Dietary Toxicity (OCSPP 850,2200), Seedling emergence (OCSPP 850,4100), Vegetative vigor (OCSPP 850,4150). Non-target insect (OCSPP 880,4350)) data requirements with one of the following options:

A. Conduct and submit a guideline study to fulfill the data requirement(s) or:  B. Request a waiver for the data requirement(s). (Note: A waiver means that you are requesting to NOT address the data requirement is not applicable because of x.y.z reasons. You MUST state the reason(s) why the requirement is not applicable because of x.y.z reasons. You MUST state the reason(s) why the requirement is not applicable) or:  C. Address the data requirement(s) by way of a citation(s) to a study(s) from the open scientific literature. The study should be conducted using either the test substance or a substance that is chemically and structurally similar to the test substance. In addition, you must provide a valid scientific rationale as to the findings of the study and a bridging argument. The bridging argument is a rationale that provides the reasons why the study can be bridged to satisfy the data requirement for the test substance. A copy of the published literature upon which you are relying must be provided.	
which you seek registration.  Discuss why the findings remain relevant and discuss any recent scientific findings/developments/changes (if any) and how those changes are not expected to affect and/or change what the agency concluded when the agency's safety finding was made.	: :

Page 2 of 2 EPA File Symbol No. 33025-A OPP Decision No. 534726

### Shortcomings

Deficiency	Data/Information Submitted	Reason for Inadequacies	What Data/Information are Needed
Active ingredient name and concentration discrepancies on label and Confidential Statement of Formula (CSF).	Product label and CSF dated September 11, 2017.	The active ingredient name on product label is "Oil of Citronella." The active ingredient is listed on the CSF as Citronella oil. Furthermore, the concentration of active ingredient listed on product label is 3%. The concentration of active ingredient listed on the CSF is 3.0%	The CSF and label must be amended regarding the name and concentration of active ingredient. Name and concentration of active ingredient must be consistent between label and CSF.



September 18 and 18

Please read instructions on reverse b	eformpleting form.		Form A <sub>k.</sub> N	ved, OMB No. 2070	0-0060, Approval expires 05-31-98
SEPA F	United S		⊠ Regis	tration	OPP Identifier Number
LLY E	nvironmental Pro	otection Agend	y 🗌 Amen	dment	
	Washington,	DC 20460	☐ Other	:	
	Apr	olication for P	esticide - Section	on I	
Company/Product Number     33025-A			N Product Manager A Hollis		3. Proposed Classification
Company/Product (Name)     CLEANBURN	· · · · · · · · · · · · · · · · · · ·	PM# BPPD	<del></del>		None Restricted
<ol><li>Name and Address of Applicant Lamplight Farms, Inc.</li></ol>	(Include ZIP Code)		pedited Review.	In accordance	with FIFRA Section 3(c)(3)
c/o Lewis & Harrison, LLC		1 :	my product is sim	ilar or identical	in composition and labeling
2461 S. Clark St., Suite 710 Arlington, VA 22202		to: EPA F	Reg. No <u>Cutt</u>	er Insect Repeller	nt Prometheus
		}			
Check if this is a new address	<del></del>		ct Name: 121	-85	<del></del>
		Sect	ion - II		<del></del>
Amendment Explain below Resubmission in response to			F	•	o Agency letter dated
Notification - Explain below.	Agency letter dated _		Me Too" Appli Other - Explain		
Explanation: Use addition	nal page(s) if nece	ssary. (For Sec			
'	Response to 75 I	Day Deficienci	es Letter dated	June 18, 2018	3
	<del></del>	Secti	on - ili	<u></u>	
Material This Product Will Be F					
Child-Resistant Packaging Yes*	Unit Packaging Yes		Water Soluble Pa	ckaging	Type of Container     Metal
No	No No		No.	1	Plastic
	If "Yes"	No. per	If "Yes"	No. per	Glass
*Certification must	Unit Packaging	wgt, container	Package wgt.	container	Paper
be submitted	<u> </u>		<u> </u>	<u></u> _	Other (Specify)
Location of Net Contents Inform     Label	mation 4. S ontainer	Size(s) Retail Contai 2- 128 f		5. Location of On Labe	of Label Directions
	,	2- 120 1	1. 02.		ing accompanying product
6. Manner in Which Label is Affix	·· · · · · · · · · · · · · ·	Lithograph	Other_		
		Paper glued Stenciled			
		Section	on - IV		
Contact Point (Complete items	directly below for ident		I to be contacted, if ned	essary, to process	
Name Georgia Anastasiou, Lewis & H	arrison, LLC	Title	Agent		Telephone No. (Include Area Code) 202-393-3903 x. 119
		ification			6. Date Application
I certify that the statements I have acknowledge that any knowingly t under applicable law.					Received (Stamped)
2. Signature		3. Title			
Georgia anavasion			Agent		
Typed Name     Georgia Anast	asiou	5. Date	8/1/2018		

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

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# LEWIS & HARRISON

2461 S. Clark St., Suite 710 Arlington, VA 22202

telephone 202,393,3903 fax 202,393,3906

Consultants in Government Affairs

August 1, 2018

E-Submission

Document Processing Desk Office of Pesticide Programs (7504P) US Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

ATTENTION:

Linda A. Hollis

Chief, Biopesticides and Pollution Prevention Division

SUBJECT:

Lamplight Farms, Inc.

Cleanburn (EPA File Symbol 33025-A)

Response to 75 Day Deficiencies Letter dated June 18, 2018

Dear Ms. Hollis:

On behalf of Lamplight Farms, Inc. ("Lamplight"), I am responding to the 75 Day Deficiencies Letter for Product Performance and Product Chemistry Data dated June 18, 2018 (attached) for the product Cleanburn, EPA File Symbol 33025-A. Please see below for the response to each deficiency.

#### Deficiency #1

The cited MRID's for the physical and chemical data requirements below did not include the methods that were used. Methods used in determining the following physical/chemical characteristic for Citronella must be provided. OCSPP 830.6313 Stability; OCSPP 830.6315 Flammability; OCSPP 830.6317 Storage Stability; OCSPP 830.6320 Corrosion characteristics; OCSPP 830.7300 Density/Relative Density/Bulk Density, and OCSPP 830.7950 Vapor pressure.

#### Response #1

Lamplight cited specific studies that were listed in the Oil of Citronella Reregistration Legibility Decision (RED) to fulfill product chemistry generic data requirements. This same approach was accepted in the past by the Agency for the substantially similar product Monarch 1101A (EPA Reg. No. 33025-3); however to satisfy this request, the generic data matrix has been updated. Lamplight is using the selective method, "cite-all" option to meet these data requirements. This approach should fulfill any generic product chemistry data requirements

#### Deficiency #2

The cited MRID's for the phys—and chemical data requirements be—did not include numerical values and methods that were used. Measurable numerical values and method of determinations for these physical/chemical characteristics of Citronella oil must be provided. OCSPP 830.700 pH; OCSPP 830.7050 UV/Visible light absorption; OCSPP 830.7100 Boiling point; OCSPP 830.7550, 830.7560, 830.7570 Partition Coefficient (n-Octanol/water), and OCSPP 830.840 Water solubility.

#### Response #2

Please see Response #1.

#### Deficiency #3

The manufacturing process of the end-use product, Cleanburn, is described in MRID 503898-01. However, the quantity of each ingredient used in the formulation is not reported and the packaging and packaging material is not described. You must report the quantity of each ingredient used in the formulation during production process, and described packaging and packaging material.

#### Response #3

Lamplight has updated the manufacturing process to include the requested information. Enclosed please find the updated manufacturing process (MRID 50648401).

#### Deficiency #4

Product performance data must be submitted and, specifically, should support all claims again public health pests appearing on the product label. You chose the "cite all" method to satisfy product performance data requirement, however, no efficacy study has been found suitable for characterizing efficacy of the proposed product against mosquitos in the USA. Specifically, product performance data is needed for determination of space of effective repellency cover by one canister, how many burning canisters are needed for effective coverture of a given space, and how to place canister for optimal coverture of a given space.

#### Response #4

The product Cleanburn is substantially similar in composition and use to the currently registered products Monarch 1101A, EPA Reg. No. 33025-3 and Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85. When Lamplight registered the product Monarch 1101A the "cite-all" method of data support was used for this registration referencing the Cutter Prometheus registration. The original application form and certification with respect to citation of data indicated that Cleanburn was substantially similar to Monarch 1101A. To eliminate any confusion, Lamplight is now claiming substantial similarity to Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85. This is the same approach Lamplight took for the registration of Monarch 1101A.

If the Agency has now determined that it has inadequate efficacy data in its files to support registration of these substantially similar 3% citronella torch fuels (Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85, Monarch 1101A, EPA Reg. No. 33025-3, or Cleanburn, EPA File Symbol No. 33025-A) then it should issue a DCI for the needed data pursuant to FIFRA §3(c)(2)(B). Further, pending submission of the needed efficacy data, EPA should conditionally register Cleanburn under FIFRA §3(c)(7)(A).

#### Deficiency #5

You must revise the propose product label to include the following use instructions: • Do not use in windy conditions. • Do not tip torch as fuel can spill and cause fire. • Do no use gasoline or other combustible or flammable fluids. • Do not place torch under covered shelter. • Do no please torch near pedestrian traffic, wood, clothing or dry vegetation. • Adjust wick height no higher than ¾ inches. • Keep clothing, hair and face away from flame. • To extinguish flame, please snuffer cap completely over wick until flame is extinguished.

#### Response #5

These use instructions do not apply to the torch fuel, but are associated with a torch. The fuel will not be sold with a torch; therefore these instructions are not applicable to the product and would be confusing to the customer. Furthermore, these statements were not required for other substantially similar torch fuel products such as Monarch 1101A, EPA Reg. No. 33025-3 and Cutter Insect Repellent Prometheus, EPA Reg. No. 121-85. To address concerns when used with a torch the following language has been added to the directions for use "Follow all torch manufactures instructions for use".

In addition, please be aware that we also added the additional brand name "TIKI Brand Paradise in Your Backyard Clean Burn BiteFighter Torch Fuel" to the label.

In support of this of this response, enclosed please find the following documents:

- Updated Application;
- 2) Updated Product Label;
- 3) Updated End Use Data Matrix (both Public and Agency copies);
- 4) Updated Generic Data Matrix (both Public and Agency copies);
- 5) Transmittal Document; and,
- 6) Updated manufacturing use data.

If you have any questions about this submission, please contact me at (202) 393-3903 ext. 119 or by email at georgia@lewisharrison.com.

Sincerely,

Stogia Anastasiou

Agent for,

Lamplight Farms, Inc.

ce: Bill Tobin (Lamplight) Luke Zeitler (Lamplight)

### **EPA TRANSMITTAL DOCUMENT**

SUBMISSION DATED: August 1, 2018

STUDY SUBMITTER: Lamplight Farms

4900 North Lilly Road

Menomonee Falls, WI 53051

PRODUCT:

**CLEANBURN** 

EPA REG. NO.:

33025-A

REGULATORY ACTION: PRIA Code B673

STUDIES SUBMITTED:

MRID: 50648401

CLEANBURN: Manufacturing Use Process (August 1, 2018) by Georgia

Anastasiou, Lewis & Harrison; 5 pages, including 4 page confidential

appendix.

COMPANY CONTACT: Georgia Anastasiou

Lewis & Harrison, LLC 123 C Street NW, Suite 505 Washington, DC 20001 (202) 393-3903 x119

georgia@lewisharrison.com



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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		DATA MATRI	X		
Date August 1, 2018			EPA Reg. No./File Symbol 33025-A		Page 1 of 2
Applicant's/Registrant's Name Lamplight Farms Inc, 4900	& Address: North Lilly Road, Menomonee Falls, WI 53051		Product Cleanburn		
ngredient(s): Citronella Oil (l	PC code 021901)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
RODUCT CHEMISTRY					
880.1100	Product Identity & Composition	50389801	Lamplight Farms Inc. (33025)	OWN	
880.1200	Description of starting materials, production & formulation process used to produce product	50648401	Lamplight Farms Inc. (33025)	OWN	
880.1400	Discussion of formation of impurities	50389801	Lamplight Farms Inc. (33025)	OWN	
830.1700	Preliminary Analysis	50389802 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
830.1750	Certified Limits	50389801	Lamplight Farms Inc. (33025)	OWN	
830.1800	Enforcement Analytical Method	50389801 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
Physical/Chemical Properties					
830.6302	Color	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6303	Physical State	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6304	Odor	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6315	Flammability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6319	Miscibility	N/A			Footnote 1
830.6317	Storage stability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6320	Corrosion characteristics	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7000	pH	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7100	Viscosity	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7300	Density/Relative Density	50389803	Lamplight Farms Inc. (33025)	OWN	
OXICOLOGY					
	Acute Toxicity Summary	50389804	Lamplight Farms Inc. (33025)	OWN	
870.1100	Acute Oral Toxicity	50389805 50389808	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.1200	Acute Dermal Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
870.1300	Acute Inhalation Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
ignature :			Name and Title:		Date

Signature:

Geogra anavasian

Name and Title: Georgia Anastasiou Agent for Lamplight Farms, Inc Date August 1, 2018



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		DATA MATRI	X		
Date August 1, 2018		<u></u> -	EPA Reg. No./File Symbol 33025-A	<u> </u>	Page 2 o
Applicant's/Registrant's Name Lamplight Farms Inc, 4900	& Address: North Lilly Road, Menomonee Falls, W	l 53051	Product Cleanburn		.,
Ingredient(s): Citronella Oil (F	C code 021901)			_	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400	Primary Eye Irritation	50389806 50389809	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2500	Primary Dermal Irritation	50389807 50389810	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2600	Skin Sensitization	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
EFFICACY	•	<del></del>	<u></u>		
	Product Performance	CITE-ALL	See-Attached List	PAY	

#### **FOOTNOTES**

1. A miscibility study is not applicable since the subject product is not diluted with petroleum distillates.

-	Cionatura	No. and Title:	T Data
	Signature:	Name and Title:	Date
		Georgia Anastasiou Agent for Lamplight Farms, Inc	August 1, 2
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		DATA MATRI	X		
Date August 1, 2018			EPA Reg. No./File Symbol 33025-A		Page 1 of 2
Applicant's/Registrant's N Lamplight Farms Inc, 4	ame & Address: 900 North Lilly Road, Menomonee Falls, WI 53051	· · · · · · · · · · · · · · · · · · ·	Product Cleanburn		
Ingredient(s): Citronella	Oil (PC code 021901)				
Guideline Reference Num	ber Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY	·				
880.1100	Product Identity & Composition	-50389801	Lamplight Farms Inc. (33025)	OWN	T
880.1200	Description of starting materials, production & formulation process used to produce product	50648401	Lamplight Farms Inc. (33025)	OWN	
880.1400	Discussion of formation of impurities	50389801	Lamplight Farms Inc. (33025)	OWN	
830.1700	Preliminary Analysis	50389802 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN OWN	
830.1750	Certified Limits	50389801	Lamplight Farms Inc. (33025)	OWN	
830.1800	Enforcement Analytical Method	50389801 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
Physical/Chemical Properties					
830.6302	Color	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6303	Physical State	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6304	Odor	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6315	Flammability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6319	Miscibility	N/A			Footnote 1
830.6317	Storage stability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6320	Corrosion characteristics	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7000	pH	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7100	Viscosity	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7300	Density/Relative Density	50389803	Lamplight Farms Inc. (33025)	OWN	
TOXICOLOGY					
	Acute Toxicity Summary	50389804	Lamplight Farms Inc. (33025)	OWN	
870.1100	Acute Oral Toxicity	50389805 50389808	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.1200	Acute Dermal Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
870.1300	Acute Inhalation Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
Signature :			Name and Title: Georgia Anastasiou Agent for Lar	nplight Farms, Inc	Date August 1, 20



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_		DATA MATRI	×		
Date August 1, 2018			EPA Reg. No./File Symbol 33025-A	\	Page 2 o
Applicant's/Registrant's Name Lamplight Farms Inc, 4900	& Address: North Lilly Road, Menomonee Falls, WI 53051		Product Cleanburn		
Ingredient(s): Citronella Oil (F	PC code 021901)		- Tradition in the same in the		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status .	Note
870.2400	Primary Eye Irritation	50389806 50389809	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2500	Primary Dermal Irritation	50389807 50389810	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	_
870.2600	Skin Sensitization	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
EFFICACY		<del>,</del> \			<u> </u>
	Product Performance	CITE-ALL	See-Attached List	PAY	

#### **FOOTNOTES**

1. A miscibility study is not applicable since the subject product is not diluted with petroleum distillates.

Signature :	•	Name and Title:	Date
Geogra	anaprasion	Georgia Anastasiou Agent for Lamplight Farms, Inc	August 1, 2

# Citronella Oil - Data Submitters July 2, 2018

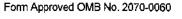
59 COOPERS ANIMAL HEALTH INC SPECTRUM, A DIV OF UNITED	REGULATORY AFFAIRS	421 EAST HAWLEY ST	MUNDELEIN	IL	60060 63114064
121 INDUSTRIES CORP	PO BOX 142642		STLOUIS	МО	2 53956131
134 HACCO, INC.		110 HOPKINS DRIVE 1501 E. WOODFIELD ROAD.,	RANDOLPH	WI	6
270 FARNAM COMPANIES, INC.		SUITE 200 WEST 999 EAST TOUHY AVE, SUITE	SCHAUMBURG	ΙL	60173
9201 CANDLE CORP OF AMERICA	GARVEY, SCHUBERT &	450 1000 POTOMAC STREET,	DES PLAINS	IL	60018
65233 PRIMAVERA LABORATORIES, INC	BARER	NW, 5TH FLOOR	WASHINGTON	DC	20007
66607 SPRAY DRIFT TASK FORCE MP-ESPREE, LLC D/B/A ESPREE ANIMAL	ALDRIDGE LLP REGULATORY	1900 K STREET, NW	WASHINGTON	DC	20006
66963 PRODUCTS, INC.	CONSULTANTS, INC.	201 W. VAN BUREN STREET	COLUMBIA CITY,	IN	46725
73878 COMPANY,LLC	GROUP INC.	1101 17TH ST NW, SUITE 500	WASHINGTON	DC	20036
74888 (REJV)	CSPA/PIR	300	WASHINGTON	DC	20006
80657 THE COMPANION GROUP	REGWEST COMPANY, LLC	8203 WEST 20TH STREET, SUITE A ONE GATEWAY CENTER,	GREELEY	СО	80634469 6
82868 ROSEMONT VENTURES, INC.		SUITE 409	NEWTON	MA	02458
84676 SPRING TRADING COMPANY		203 DOGWOOD TRAIL	MAGNOLIA	ΤX	77354
86870 BEAT IT LLC		11 SE 2ND AVENUE	GAINESVILLE	FL	32601



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	DATA MAT	RIX FOR ACTIVE	INGREDIENT		
ate August 1, 2018			EPA Reg. No./File Symbol 33025-A		Page 1 of 3
pplicant's/Registrant's Name amplight Farms Inc, 4900	& Address: North Lilly Road, Menomonee Falls, WI 53051		Product CLEANBURN		
ngredient(s): Oil of citronella	(PC code 021901)				
Suideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Chemistry					
880.1100	Product Identity & Composition	48649701	Lamplight Farms (33025)	OWN	
880.1200	Description of starting materials, production & formulation process used to produce product	48649701	Lamplight Farms (33025)	OWN	
880.1400	Discussion of formation of impurities	48649701	Lamplight Farms (33025)	OWN	
830.1700	Preliminary analysis	48649702	Lamplight Farms (33025)	OWN	
830.1750	Certified Limits	cite-all	See attachment for data submitters	PAY	
830.1800	Enforcement analytical method	48649702 cite-all	Lamplight Farms (33025) See attachment for data submitters	OWN PAY	
830.6302	Color	cite-all	See attachment for data submitters	PAY	
830.6303	Physical State	cite-all	See attachment for data submitters	PAY	
830.6304	Odor	cite-all	See attachment for data submitters	PAY	
830.6313	Stability	cite-ali	See attachment for data submitters	PAY	
830.6315	Flammability	cite-all	See attachment for data submitters	PAY	
830.6317	Storage Stability	cite-all	See attachment for data submitters	PAY	
830.6319	Miscibility	cite-all	See attachment for data submitters	PAY	
830.6320	Corrosion Characteristics	cite-all	See attachment for data submitters	PAY	
830.7000	pH	cite-all	See attachment for data submitters	PAY	
830.7050	UV/Visible light absorption	cite-all	See attachment for data submitters	PAY	
830.7100	Viscosity	cite-all	See attachment for data submitters	PAY	
830.7200	Melting point	cite-all	See attachment for data submitters	PAY	
830.7220	Boiling point	cite-all	See attachment for data submitters	PAY	
830.7300	Density	cite-all	See attachment for data submitters	PAY	
830.7520	Particle Size	N/A			(2)
830.7550-830.7570	Partition coefficient	cite-all	See attachment for data submitters	PAY	
830.7840	Water solubility	cite-ail	See attachment for data submitters	PAY	
lignature			Name and Title: Georgia Anastasiou, Agent for La	mplight Farms Inc.	Date August 1, 201



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# DATA MATRIX FOR ACTIVE INGREDIENT

Date August 1, 2018 EPA Reg. No./File Symbol 33025-A Page 2 or
Applicant's/Registrant's Name & Address:
Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051
Product
CLEANBURN

Ingredient(s): Oil of citronella (PC code 021901)

Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note

830.7950 Vapor Pressure cite-all See attachment for data submitters PAY (1)

TOXICOLOGY

870.1100 Acute Oral Toxicity 41747402 Candle Corp (009201) OLD (1)

OXICOLOGY		<del>'- ''</del>			
870.1100	Acute Oral Toxicity	41747402 43179401	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1) (1)
870.1200	Acute Dermal Toxicity	41747403 43167101	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1)
870.1300	Acute Inhalation Toxicity	41747404 43167102	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1) (1)
870.2400	Primary Eye Irritation	41747405 43167103	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1)
870.2500	Primary Dermal Irritation	41747406 43167104	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1) (1)
870.2600	Dermal Sensitization	41747407 43167105	Candle Corp (009201) Citronella Joint Venture (67736)	OLD OLD	(1) (1)
	Hypersensitivity				Not App
870.5385/870.5895	Microbial mutagenicity	41786701 41785702 41747408	Citronella Joint Venture (67736) Citronella Joint Venture (67736) Candle Corp (009201)	OLD OLD OLD	(1)
870.3550	Immunotoxicity	50521401	Lamplight Farms (33025)		
870.3100	90-Day oral toxicity	50521402	Lamplight Farms (33025)	····-	
870.3250	90-Day dermal toxicity	50521403	Lamplight Farms (33025)		
870.3465	90-Day inhalation toxicity	50521404	Lamplight Farms (33025)		
870.3700	Prenatal Development	50521405	Lamplight Farms (33025)		

Signature	Name and Title:	Date
Geogra anguasian	Georgia Anastasiou, Agent for Lamplight Farms Inc.	August 1, 20
( South Contraction of the Contr	<b>:</b>	ļ



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		DATA MATRI	X			
Date August 1, 2018	3		EPA Reg. No./File Symbol 33025-A		Page 1	
Applicant's/Registrant's Name & Address: Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051			Product Cleanburn			
Ingredient(s): Citronella	Oil (PC code 021901)					
Guideline Reference Num	ber Guideline Study Name	MRID Number	Submitter	Status	Note	
PRODUCT CHEMISTRY	(					
880.1100	Product Identity & Composition	50389801	Lamplight Farms Inc. (33025)	OWN		
880.1200	Description of starting materials, production & formulation process used to produce product	50648401	Lamplight Farms Inc. (33025)	OWN		
880.1400	Discussion of formation of impurities	50389801	Lamplight Farms Inc. (33025)	OWN		
830.1700	Preliminary Analysis	50389802 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN OWN		
830.1750	Certified Limits	50389801	Lamplight Farms Inc. (33025)	OWN		
830.1800	Enforcement Analytical Method	50389801 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN		
Physical/Chemical Properties		10010102				
830.6302	Color	50389803	Lamplight Farms Inc. (33025)	OWN		
830.6303	Physical State	50389803	Lamplight Farms Inc. (33025)	OWN		
830.6304	Ödor	50389803	Lamplight Farms Inc. (33025)	OWN		
830.6315	Flammability	50389803	Lamplight Farms Inc. (33025)	OWN		
830.6319	Miscibility	N/A			Footnote	
830.6317	Storage stability	50389803	Lamplight Farms Inc. (33025)	OWN		
830,6320	Corrosion characteristics	50389803	Lamplight Farms Inc. (33025)	OWN		
830.7000	pH	50389803	Lamplight Farms Inc. (33025)	OWN		
830.7100	Viscosity	50389803	Lamplight Farms Inc. (33025)	OWN		
830.7300	Density/Relative Density	50389803	Lamplight Farms Inc. (33025)	OWN		
TOXICOLOGY						
	Acute Toxicity Summary	50389804	Lamplight Farms Inc. (33025)	OWN		
870.1100	Acute Oral Toxicity	50389805 50389808	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN		
870.1200	Acute Dermal Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waive	
870.1300	Acute Inhalation Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waive	
Signature :			Name and Title: Georgia Anastasiou Agent for Lan	nplight Farms, Inc	Date August 1.	

Form Approved OMB No. 2070-0060



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

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Date August 1, 2018			EPA Reg. No./File Symbol 33029	5-A	Page 3 of
Applicant's/Registrant's Name Lamplight Farms Inc, 4900	& Address: North Lilly Road, Menomonee Falls, '	WI 53051	Product CLEANBURN	···	
Ingredient(s): Oil of citronella	(PC code 021901)		•		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
FOOLOGICAL EFFECTS					
850.2100	Acute Avian Oral	41747409	Candle Corp (009201)	OLD	(1)
850.2200	Avian Dietary Toxicity	50521406	Lamplight Farms (33025)	-	
154B-8	Fish toxicity	41747410	Candle Corp (009201)	OLD	(1)
154B-9	Invertebrate Toxicity	41747411	Candle Corp (009201)	OLD	(1)
850. <u>4100</u>	Seedling emergence	50521407	Lamplight Farms (33025)		
850.4250	Vegetative vigor	50521408	Lamplight Farms (33025)		
880.4350	Nontarget insects	50521409	Lamplight Farms (33025)	_ "	

#### **FOOTNOTES**

- Per pages 27-28 of the Oil of Citronella RED, these generic data requirements have been fulfilled.
- 2. The dissociation constant data requirement is not applicable since citronella does not have any dissociable groups.

Signature	Name and Title:	Date
Leagia anavasion	Georgia Anastasiou, Agent for Lamplight Farms Inc.	August 1, 2018
Start		



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

		DATA MATRI	X		
Date August 1, 2018			EPA Reg. No./File Symbol 33025-	4	Page 2 of 2
Applicant's/Registrant's Name & Address: Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051			Product Cleanburn		
Ingredient(s): Citronella Oil (F	PC code 021901)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400	Primary Eye Irritation	50389806 50389809	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2500	Primary Dermal Irritation	50389807 50389810	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2600	Skin Sensitization	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
EFFICACY					
	Product Performance	CITE-ALL	See-Attached List	PAY	

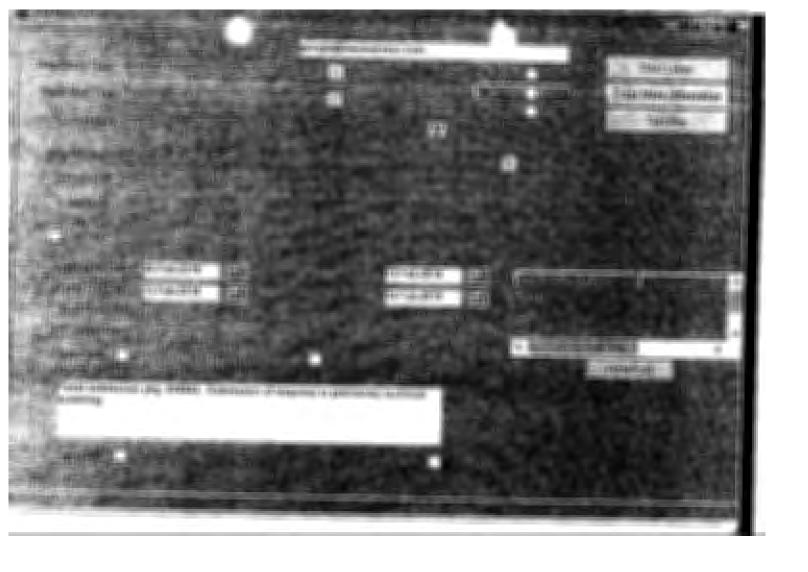
#### **FOOTNOTES**

1. A miscibility study is not applicable since the subject product is not diluted with petroleum distillates.

Signature :	Name and Title:	Date
	Georgia Anastasiou Agent for Lamplight Farms, Inc	August 1, 2018
bliggia anewasian		

# Citronella Oil - Data Submitters July 2, 2018

59 COOPERS ANIMAL HEALTH INC SPECTRUM, A DIV OF UNITED	REGULATORY AFFAIRS	421 EAST HAWLEY ST	MUNDELEIN	łL	60060 63114064
121 INDUSTRIES CORP	PO BOX 142642		ST LOUIS	МО	
134 HACCO, INC.		110 HOPKINS DRIVE 1501 E. WOODFIELD ROAD.,	RANDOLPH	WI	6
270 FARNAM COMPANIES, INC.		SUITE 200 WEST 999 EAST TOUHY AVE, SUITE	SCHAUMBURG	IL	60173
9201 CANDLE CORP OF AMERICA	GARVEY, SCHUBERT &	450 1000 POTOMAC STREET,	DES PLAINS	IL	60018
65233 PRIMAVERA LABORATORIES, INC	BARER	NW, 5TH FLOOR	WASHINGTON	DC	20007
66607 SPRAY DRIFT TASK FORCE	ALDRIDGE LLP	1900 K STREET, NW	WASHINGTON	DC	20006
MP-ESPREE, LLC D/B/A ESPREE ANIMAL	REGULATORY				
66963 PRODUCTS, INC.	CONSULTANTS, INC.	201 W. VAN BUREN STREET	COLUMBIA CITY,	IN	46725
73878 COMPANY,LLC	GROUP INC.	1101 17TH ST NW, SUITE 500	WASHINGTON	DC	20036
74888 (REJV)	CSPA/PIR	300	WASHINGTON	DC	20006
	REGWEST COMPANY,	8203 WEST 20TH STREET,			80634469
80657 THE COMPANION GROUP	LLC	SUITE A	GREELEY	CO	6
		ONE GATEWAY CENTER,			
82868 ROSEMONT VENTURES, INC.		SUITE 409	NEWTON	MA	02458
84676 SPRING TRADING COMPANY		203 DOGWOOD TRAIL	MAGNOLIA	ΤX	77354
86870 BEAT IT LLC		11 SE 2ND AVENUE	GAINESVILLE	FL	32601



Please read instructions on reverse bef	ore completing form.		Form Approve	d, OMB No. 2070-	0060, Approval expires 05-31-98
<b>○</b> EDA	United States	\$	⊠ Registr	ration	OPP Identifier Number
S EPA EN	rironmental Protect	tion Agency			
	Washington, DC 2	20460	☐ Other:		
	Applica	ation for Pes	sticide - Section		
Company/Product Number			roduct Manager		Proposed Classification
33025-A	Linda A I				
Company/Product (Name)     CLEANBURN		PM# BPPD			None Restricted
5. Name and Address of Applicant (/	nclude ZIP Code)				ith FIFRA Section 3(c)(3)
Lamplight Farms, Inc. c/o Lewis & Harrison, LLC		1 ,	y product is simila	ar or identical i	n composition and labeling
122 C ST. NW, Suite 505 Washington, DC 20001		to:	g. No. <u>Tiki In</u>	sect Penellent M	onarch 1101A
Washington, DC 20001		LIXING	.g. 110 <u>1161 iii</u>	isect (topellent in	onard) Horz
Check if this is a new address	· · · · · · · · · · · · · · · · · · ·		Name: 33025	5-3	
		Sectio	<del></del>		<u> </u>
Amendment – Explain below.			= :	•	Agency letter dated
Resubmission in response to A	Agency letter dated		"Me Too" Applica		
Notification - Explain below.  Explanation: Use additiona	l page(s) if necessar	v. (For Section	Other - Explain to on Land Section II.		<del></del>
Explanation: 600 additiona	n page(o) ii neccesar	y. (1 07 00000	in raina occitor in	••	
	Response to Prel	liminary Tec	chnical Screenii	ng Letter	
		Section	n - III		<del></del>
Material This Product Will Be Pa	ckaged In:				
Child-Resistant Packaging	Unit Packaging		Water Soluble Pack	aging	Type of Container
∐ Yes⁺	∐ Yes		Yes	Metal	
∭ No		No. per	No. per If "Yes" No. per Class		
*Certification must	Unit Packaging wgt.	container	Package wgt.	container	Glass Paper
be submitted	1	1			Other (Specify)
Location of Net Contents Informa	ition 4. Size(s	s) Retail Containe	er e	5. Location of	Label Directions
	tainer	2- 128 fl.	oz.	On Label	
				On fabeling	ng accompanying product
6. Manner in Which Label is Affixed	☑ Paper		Other		
	Ster	nciled	- IV		
1 Contact Boint (Complete its )	imaths balans for idealifers	Section ion of individual to		seemy to process	this application)
	1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)  Name Georgia Anastasiou, Lewis & Harrison, LLC, Title Telephone No. (Include Area				
	122 C Street NW, Ste. 505, Washington, DC 20001			I .	Code) 202-393-3903 x. 119
I certify that the statements I have n acknowledge that any knowingly fal under applicable law.	Certifica nade on this form and all a se or misleading statemen	ttachments there	eto are true, accurate a able by fine or imprisor	and complete. I	6. Date Application Received (Stamped)
2. Signature		3. Title	Atont		
Geogra anavasion			Agent		
4. Typed Name		5. Date	2/6/2018		
Georgia Anastas	MOU		2012010		

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original) Yellow- Applicant Copy

#### EPA TRANSMITTAL DOCUMENT

SUBMISSION DATED: February 6, 2018 STUDY SUBMITTER: Lamplight Farms

4900 North Lilly Road

Menomonee Falls, WI 53051

PRODUCT:

**CLEANBURN** 

EPA REG. NO.:

33025-A

REGULATORY ACTION: PRIA Code B673

STUDIES SUBMITTED:

MRID: 50521401 CLEANBURN: Discussion of Waiver Request for Immunotoxicity

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521402 <u>CLEANBURN: Discussion of Waiver Request for 90-Day Oral Toxicity</u>

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521403 CLEANBURN: Discussion of Waiver Request for 90-Day Dermal Toxicity

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521404 <u>CLEANBURN:</u> Discussion of Waiver Request for 90-Day Inhalation

Toxicity (February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4

pages.

MRID: 50521405 CLEANBURN: Discussion of Waiver Request for Prenatal Development

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521406 CLEANBURN: Discussion of Waiver Request for Avian Dietary Toxicity

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521407 CLEANBURN: Discussion of Waiver Request for Seedling Emergence

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521408 CLEANBURN: Discussion of Waiver Request for Vegetative vigor

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50521409 CLEANBURN: Discussion of Waiver Request for Nontarget Insects

(February 6, 2018) by Georgia Anastasiou, Lewis & Harrison; 4 pages.

COMPANY CONTACT: Georgia Anastasiou

Lewis & Harrison, LLC 123 C Street NW, Suite 505 Washington, DC 20001 (202) 393-3903 x119

georgia@lewisharrison.com

# LEWIS & HARRISON

122 C Street, N.W. Suite 505 Washington, DC 20001

telephone 202.393.3903 fax 202.393.3906

Consultants in Government Affairs

February 6, 2018

E-Submission

Document Processing Desk Office of Pesticide Programs (7504P) US Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

ATTENTION:

Linda A. Hollis

Chief, Biopesticides and Pollution Prevention Division

SUBJECT:

Lamplight Farms, Inc.

CLEANBURN (EPA File Symbol 33025-A)

Response to Preliminary Technical Screening Letter

Dear Ms. Hollis:

On behalf of Lamplight Farms, Inc., I am responding to the Preliminary Technical Screening letter dated January 29, 2018 (attached) for the product CLEANBURN, EPA File Symbol 33025-A. Please see details below for the response to each deficiency:

Deficiency	Response
90-day oral data (870.3100)	Data waiver enclosed (MRID 50521401).
90-day dermal data (870.3250)	Data waiver enclosed (MRID 50521402).
90-day inhalation data (870.3465)	Data waiver enclosed (MRID 50521403).
Prenatal development (870.3700)	Data waiver enclosed (MRID 50521404).
In vitro mammalian cell assay	The data citations for this requirement were listed in the original
(870.5300/870.5375)	submission. I believe this request may be a typo and the
	immunotoxicity data requirement should have been listed since it
	was handled the same way as the other deficient data requirements.
	Therefore I have included a waiver request for the immunotoxicity
	data requirement (880.3550) instead (MRID 50521405).
Avian Dietary Toxicity (850.2200)	Data waiver enclosed (MRID 50521406).
Seedling emergence (850.4100)	Data waiver enclosed (MRID 50521407).
Vegetative vigor (850.4150)	The OPPTS guideline I believe should be 850.4250. The data
	waiver for the requirement Vegetative vigor (850.4250) is enclosed
	(MRID 50521408).
Non-target insects (880.4350)	Data waiver enclosed (MRID 50521409).
Active Ingredient name discrepancy	Updated label enclosed

Act	tive	Ingredient	concentration	Updated CSFs enclosed
disc	crepai	ncy		

In support of this of this response, enclosed please find the following documents:

- 1) Updated Product Label;
- 2) Basic and Alternate#1 Confidential Statements of Formula dated 2/06/2018;
- 3) Updated Generic Data Matrix (both Public and Agency copies);
- 4) Transmittal Document; and,
- 5) Data Waivers.

If you have any questions about this submission, please contact me at (202) 393-3903 ext. 119 or by email at georgia@lewisharrison.com.

Sincerely,

Georgia anamasion

Georgia Anastasiou

Agent for,

Lamplight Farms, Inc.

cc: Bill Tobin (Lamplight) Luke Zeitler (Lamplight)

#### EPA TRANSMITTAL DOCUMENT

SUBMISSION DATED: September 11, 2017 STUDY SUBMITTER: Lamplight Farms

4900 North Lilly Road

Menomonee Falls, WI 53051

PRODUCT:

CLEANBURN

EPA REG. NO.:

33025-

REGULATORY ACTION: PRIA Code B673

STUDIES SUBMITTED:

MRID: 50389801 CLEANBURN: Product Properties (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison; 9 pages, including 27 page confidential

appendix.

MRID: 50389802 CLEANBURN: Preliminary Analysis (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50389803 Physical and Chemical Characteristics of Cleanburn with 3% Citronella:

Color, Physical State, Odor, Oxidation/Reduction, Flammability,

Storage Stability, Corrision Characteristics, pH, Viscosity and Relative Denisty (September 19, 2017) by Brian A. Roe, Case Laboratories; Study

No: 4780-06; 14 pages.

MRID: 50389804 CLEANBURN: Summary of Acute Toxicity Data (September 11, 2017)

by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50389805 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL: Acute

Oral Toxicity - Up and Down Porcedure in Rats (September 1, 2017) by

Carolyn Lowe, Product Safety Labs; Study No: 46226; 14 pages.

MRID: 50389806 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL:

Primary Eve Irritation in Rabbits (September 1, 2017) by Carolyn Lowe,

Product Safety Labs; Study No: 46227; 15 pages.

CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL: MRID: 50389807

Primary Skin Irritation in Rabbits (September 1, 2017) by Carolyn

Lowe, Product Safety Labs; Study No: 46228; 17 pages.

PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL: MRID: 50389808

Acute Oral Toxicity - Up and Down Porcedure in Rats (September 1,

2017) by Melissa Slonina, Product Safety Labs; Study No: 46229; 14

pages.

MRID: 50389809

PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL: Acute Oral Toxicity – Primary Eye Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46230; 17

pages.

MRID: 50389810 PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL:

> Acute Oral Toxicity - Primary Skin Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46231; 17 pages

CLEANBURN: Waiver Request for Acute Toxicity Testing (September MRID: 50389811

11, 2017) by Georgia Anastasiou, Lewis & Harrison; 5 pages.

COMPANY CONTACT: Georgia Anastasiou

Lewis & Harrison, LLC 123 C Street NW, Suite 505 Washington, DC 20001 (202) 393-3903 x119

georgia@lewisharrison.com

# LEWIS & HARRISON

122 C Street, N.W. Suite 505 Washington, DC 20001

telephone 202,393,3903 fax 202,393,3906

Consultants in Government Affairs

September 13, 2017

E-Submission

Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

ATTENTION:

Andrew Bryceland

**Biopesticides and Pollution Prevention Division** 

SUBJECT:

Lamplight Farms, Inc. CLEANBURN (33025- )

Application to Register End Use Product

PRIA Category B673

Dear Mr. Bryceland:

On behalf of Lamplight Farms, Inc., I am submitting an application to register the end-use product, CLEANBURN. This product contains 3% citronella oil as the active ingredient and will be used as an outdoor torch fuel to repel flying insects. This product is similar in composition and use to the currently registered product *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3, with the exception of the inert ingredients.

In support of this registration, I am submitting product chemistry data and acute toxicity data. As for efficacy data requirements Lamplight wishes to use the "cite-all" option. Both *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3 and CLEANBURN contain 3% oil of citronella as the active ingredient. As stated above, with the exception of the inert ingredients, which are expected to have no impact on efficacy, this formula is the same as the formula for *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3.

I believe the PRIA Category code for this registration falls under B673 since the source of TGA1 for the citronella oil is the same as *Tiki Insect Repellent Monarch 1101A*.

In support of this application, enclosed please find the following documents:

- Application for Pesticide Registration;
- 2) Payment Receipt;
- 3) Propose Product Label;
- 4) Basic and Alternate#1 Confidential Statements of Formula dated 9/11/2017;

- 5) Certification with Respect to Data Compensation;
- 6) End-Use Data Matrix (both Public and Agency copies);
- 7) Generic Data Matrix (both Public and Agency copies);
- 8) Transmittal Document; and,
- 9) Product Chemistry & Acute Toxicity data.

Thank you for in advance for your help with this request. If you have any questions about this submission, please contact me at (202) 393-3903 ext. 19 or by email at georgia@lewisharrison.com.

Sincerely,

Georgia anavasion

Georgia Anastasiou Agent for,

Lamplight Farms, Inc.

cc: Bill Tobin (Lamplight) Luke Zeitler (Lamplight)



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

October 17, 2017

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

LEWIS & HARRISON, LLC LAMPLIGHT FARMS, INC. 122 C STREET, N.W., SUITE 505 WASHINGTON, DC 20001

Report of Analysis for Compliance with PR Notice 11-03

Thank you for your submittal of 06-OCT-17. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 11-03. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

#### EPA TRANSMITTAL DOCUMENT

SUBMISSION DATED: September 11, 2017 STUDY SUBMITTER: Lamplight Farms

4900 North Lilly Road

Menomonee Falls, WI 53051

PRODUCT:

CLEANBURN

EPA REG. NO.:

33025-

**REGULATORY ACTION: PRIA Code B673** 

STUDIES SUBMITTED:

MRID: 50389801 CLEANBURN: Product Properties (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison: 9 pages, including 27 page confidential

appendix.

MRID: 50389802 CLEANBURN: Preliminary Analysis (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison; 4 pages.

Physical and Chemical Characteristics of Cleanburn with 3% Citronella: MRID: 50389803

Color, Physical State, Odor, Oxidation/Reduction, Flammability,

Storage Stability, Corrision Characteristics, pH, Viscosity and Relative Denisty (September 19, 2017) by Brian A. Roe, Case Laboratories; Study

No: 4780-06; 14 pages.

MRID: 50389804 CLEANBURN: Summary of Acute Toxicity Data (September 11, 2017)

by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50389805 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL: Acute

Oral Toxicity – Up and Down Porcedure in Rats (September 1, 2017) by

Carolyn Lowe, Product Safety Labs; Study No: 46226; 14 pages.

MRID: 50389806 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL:

Primary Eye Irritation in Rabbits (September 1, 2017) by Carolyn Lowe,

Product Safety Labs; Study No: 46227; 15 pages.

MRID: 50389807 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL:

Primary Skin Irritation in Rabbits (September 1, 2017) by Carolyn

Lowe, Product Safety Labs; Study No: 46228; 17 pages.

PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL: MRID: 50389808

Acute Oral Toxicity - Up and Down Porcedure in Rats (September 1,

2017) by Melissa Slonina, Product Safety Labs; Study No: 46229; 14

pages.

MRID: 50389809

PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL: Acute Oral Toxicity – Primary Eye Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46230; 17

pages.

MRID: 50389810 PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL:

> Acute Oral Toxicity - Primary Skin Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46231; 17 pages

MRID: 50389811 CLEANBURN: Waiver Request for Acute Toxicity Testing (September

11, 2017) by Georgia Anastasiou, Lewis & Harrison; 5 pages.

COMPANY CONTACT: Georgia Anastasiou

Lewis & Harrison, LLC 123 C Street NW, Suite 505 Washington, DC 20001 (202) 393-3903 x119

georgia@lewisharrison.com

# LEWIS & HARRISON

122 C Street, N.W. Suite 505 Washington, DC 20001

telephone 202.393.3903 fax 202.393.3906

Consultants in Government Affairs

September 13, 2017

E-Submission

Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

ATTENTION:

Andrew Bryceland

Biopesticides and Pollution Prevention Division

SUBJECT:

Lamplight Farms, Inc. CLEANBURN (33025- )

Application to Register End Use Product

PRIA Category B673

Dear Mr. Bryceland:

On behalf of Lamplight Farms, Inc., I am submitting an application to register the end-use product, CLEANBURN. This product contains 3% citronella oil as the active ingredient and will be used as an outdoor torch fuel to repel flying insects. This product is similar in composition and use to the currently registered product *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3, with the exception of the inert ingredients.

In support of this registration, I am submitting product chemistry data and acute toxicity data. As for efficacy data requirements Lamplight wishes to use the "cite-all" option. Both *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3 and CLEANBURN contain 3% oil of citronella as the active ingredient. As stated above, with the exception of the inert ingredients, which are expected to have no impact on efficacy, this formula is the same as the formula for *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3.

I believe the PRIA Category code for this registration falls under B673 since the source of TGAI for the citronella oil is the same as Tiki Insect Repellent Monarch 1101A.

In support of this application, enclosed please find the following documents:

- 1) Application for Pesticide Registration;
- 2) Payment Receipt;
- Propose Product Label;
- 4) Basic and Alternate#1 Confidential Statements of Formula dated 9/11/2017;

- 5) Certification with Respect to Data Compensation;
- 6) End-Use Data Matrix (both Public and Agency copies);
- 7) Generic Data Matrix (both Public and Agency copies);
- 8) Transmittal Document; and,
- 9) Product Chemistry & Acute Toxicity data.

Thank you for in advance for your help with this request. If you have any questions about this submission, please contact me at (202) 393-3903 ext. 19 or by email at georgia@lewisharrison.com.

Sincerely,

Geogra anassasion

Georgia Anastasiou Agent for, Lamplight Farms, Inc.

cc: Bill Tobin (Lamplight)

Luke Zeitler (Lamplight)

33025-A

## Memorandum E-SUBMISSION

Date:	0/18/17	
То:	PM 91	, Regulatory Manager
From: Inf	ormation Servic	es Branch, ITRMD
	nat MRIDs for th	a submission is not an ne enclosed studies have
_	ove date before	be approximately 5 days e the study-level data is
•	nave any question act Teresa Down	ns about this process, is (305-5363).
This is a:	•	ed submission cepted submission omission



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

#### DATA MATRIX FOR ACTIVE INGREDIENT Date February 6, 2018 Page 1 of 3 EPA Reg. No./File Symbol 33025-A Applicant's/Registrant's Name & Address: Product Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051 CLEANBURN Ingredient(s): Oil of citronella (PC code 021901) Guideline Reference Number Guideline Study Name MRID Number Status Note Submitter Product Chemistry 880,1100 Product Identity & Composition 48649701 Lamplight Farms (33025) 880,1200 Description of starting materials, 48649701 Lamplight Farms (33025) production & formulation process used to produce product 880.1400 Discussion of formation of impurities Lamplight Farms (33025) 48649701 830.1700 Preliminary analysis 48649702 Lamplight Farms (33025) 830,1750 Certified Limits 41785703 Candle Corp (009201) OLD (1)830,1800 Enforcement analytical method 48649702 Lamplight Farms (33025) 830.6302 Color 41785703 OLD (1) Candle Corp (009201) 830,6303 (1) Physical State 41785703 Candle Corp (009201) OLD 830.6304 Odor Candle Corp (009201) OLD (1) 41785703 830.6313 (1) Stability OLD 41785703 Candle Corp (009201) 830.6315 (1) Flammability OLD 41785703 Candle Corp (009201) 830,6317 OLD (1) Storage Stability 41785703 Candle Corp (009201) 830.6319 Miscibility 41785703 Candle Corp (009201) OLD (1) 830.6320 Corrosion Characteristics OLD (1) 41785703 Candle Corp (009201) 830,7000 OI D (1) Нq 41785703 Candle Corp (009201) 830,7100 Viscosity OLD (1) 41785703 Candle Corp (009201) 830,7200 Melting point OLD (1) 41785703 Candle Corp (009201) 830,7220 Boiling point OLD (1) 41785703 Candle Corp (009201) 830,7300 Density 41785703 Candle Corp (009201) OLD (1) 830,7520 (2) Particle Size N/A 830.7550-830.7570 (3) Partition coefficient N/A 830,7840 (1) Water solubility 41785703 OLD Candle Corp (009201) 830,7950 OLD (1) Vapor Pressure 41785703 Candle Corp (009201)

Stogia anavasion EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Signature

Name and Title: Georgia Anastasiou, Agent for Lamplight Farms Inc.

Date February 6, 2018

Form Approved OMB No. 2070-0060



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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#### DATA MATRIX FOR ACTIVE INGREDIENT

Date February 6, 2018	EPA Reg. No./File Symbol 33025-A	Page 2 of 3	
Applicant's/Registrant's Name & Address: Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051	Product		
Campingher arms inc, 4000 forth Emy road, monomories Fans, 41 00001	CLEANBURN		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
TOXICOLOGY					
870.1100	Acute Oral Toxicity	41747402 43179401	Candle Corp (009201) Citronella Joint Venture (677	736) OLD	(1) (1)
870.1200	Acute Dermal Toxicity	41747403 43167101	Candle Corp (009201) Citronella Joint Venture (677	736) OLD	(1) (1)
870.1300	Acute Inhalation Toxicity	41747404 43167102	Candle Corp (009201) Citronella Joint Venture (677	736) OLD	(1) (1)
870.2400	Primary Eye Irritation	41747405 43167103	Candle Corp (009201) Citronella Joint Venture (677	736) OLD	(1) (1)
870.2500	Primary Dermal Irritation	41747406 43167104	Candle Corp (009201) Citronella Joint Venture (677	736) OLD	(1) (1)
870.2600	Dermal Sensitization	41747407 43167105	Candle Corp (009201) Citronella Joint Venture (677	(736) OLD	(1) (1)
	Hypersensitivity				Not Applicable
870.5385/870.5895	Microbial mutagenicity	41786701 41785702 41747408	Citronella Joint Venture (677 Citronella Joint Venture (677 Candle Corp (009201)		(1)
870.3550	Immunotoxicity	50521401	Lamplight Farms (33025)		
870.3100	90-Day oral toxicity	50521402	Lamplight Farms (33025)		
870.3250	90-Day dermal toxicity	50521403	Lamplight Farms (33025)		
870.3465	90-Day inhalation toxicity	50521404	Lamplight Farms (33025)		
870.3700	Prenatal Development	50521405	Lamplight Farms (33025)		

Signature	Name and Title:	Date
Suogia anamasian	Georgia Anastasiou, Agent for Lamplight Farms Inc.	February 6, 2018
SAL Sam 9570 25 /0 071 Electronic and Sanot vargings auditable Submit only Banga varging	Agency Internal	11



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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	DATA MAT	RIX FOR ACTIVE	INGREDIENT		
Date February 6, 2018			EPA Reg. No./File Symbol 33025-A		Page 3 of 3
Applicant's/Registrant's Name & Lamplight Farms Inc, 4900 N	Address: orth Lilly Road, Menomonee Falls, WI 53051		Product CLEANBURN		
ngredient(s): Oil of citronella	(PC code 021901)				
Guideline Reference Number   Guideline Study Name   MRID Number   Submitter   Status				Status	Note
COLOGICAL EFFECTS					
850.2100	Acute Avian Oral	41747409	Candle Corp (009201)	OLD	(1)
850.2200	Avian Dietary Toxicity	50521406	Lamplight Farms (33025)		
154B-8	Fish toxicity	41747410	Candle Corp (009201)	OLD	(1)
154B-9	Invertebrate Toxicity	41747411	Candle Corp (009201)	OLD	(1)
850.4100	Seedling emergence	50521407	Lamplight Farms (33025)		
850.4250	Vegetative vigor	50521408	Lamplight Farms (33025)		
880.4350 Nontarget insects 50521409 Lamplight Farms (33025) -					
ENVIRONMENTAL FATE					
					Non-Applicable

#### **FOOTNOTES**

- 1. Per pages 27-28 of the Oil of Citronella RED, these generic data requirements have been fulfilled.
- 2. The dissociation constant data requirement is not applicable since citronella does not have any dissociable groups.
- 3. The partition coefficient data requirement is not applicable since citronella is not a non-polar organic substance.

Signature	Name and Title: Georgia Anastasiou, Agent for Lamplight Farms Inc.	Date February 6, 2018
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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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#### DATA MATRIX FOR ACTIVE INGREDIENT Page 1 of 3 Date February 6, 2018 EPA Reg. No./File Symbol 33025-A Applicant's/Registrant's Name & Address: Product Lamplight Farms Inc. 4900 North Lilly Road, Menomonee Falls, WI 53051 CLEANBURN Ingredient(s): Oil of citronella (PC code 021901) Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note Product Chemistry 880.1100 Product Identity & Composition Lamplight Farms (33025) 48649701 Description of starting materials, 880.1200 48649701 Lamplight Farms (33025) production & formulation process used to produce product 880.1400 Discussion of formation of impurities 48649701 Lamplight Farms (33025) Lamplight Farms (33025) 48649702 830,1700 Preliminary analysis (1) 830.1750 Certified Limits 41785703 Candle Corp (009201) OLD 830,1800 Enforcement analytical method 48649702 Lamplight Farms (33025) 830.6302 41785703 OLD (1) Color Candle Corp (009201) OLD (1) 830.6303 Physical State 41785703 Candle Corp (009201) (1)830,6304 41785703 OLD Odor Candle Corp (009201) OLD (1) 830.6313 Stability 41785703 Candle Corp (009201) (1) OLD 830.6315 Flammability 41785703 Candle Corp (009201) (1)Storage Stability OLD 830.6317 41785703 Candle Corp (009201) (1) OLD. 830.6319 Miscibility 41785703 Candle Corp (009201) (1) 830.6320 Corrosion Characteristics 41785703 Candle Corp (009201) OLD (1) 830,7000 рΗ 41785703 Candle Corp (009201) OLD Candle Corp (009201) OLD (1) 830.7100 Viscosity 41785703 (1) 830,7200 41785703 OLD Melting point Candie Corp (009201) OLD $(\overline{1})$ 830.7220 41785703 Boiling point Candle Corp (009201) (1) OLD 830.7300 Density 41785703 Candie Corp (009201) (2) 830.7520 Particle Size N/A (3) 830.7550-830.7570 Partition coefficient N/A OLD (1) 830.7840 41785703 Candle Corp (009201) Water solubility OLD (1) 830.7950 Vapor Pressure 41785703 Candle Corp (009201)

Signature	Name and Title:	Date
Surgia anevarian	Georgia Anastasiou, Agent for Lamplight Farms Inc.	February 6, 2018
EPA Form 8570-35 (9-97) Electronic and Paper versions available, Submit only Paper version.	Public	File Copy



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JUN 1 8 2018

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

#### \*\*CONTAINS CONFIDENTIAL BUSINESS INFORMATION\*\*

#### BY EMAIL RETURN RECEIPT REQUESTED

Georgia Anastasiou Lamplight Farms, Inc. c/o Lewis & Harrison, LLC 122 C Street, N.W., Suite 505 Washington, DC 20001

Subject:

75-day Deficiencies: Product Performance Data (40 CFR § 158.2160) and Product

Chemistry Data (40 CFR § 158.2030) Deficiencies. Application for Registration Dated September 11, 2017

EPA Receipt Date: October 06, 2017

Product Name: Clean burn (a.i.: Oil of Citronella)

EPA File Symbol: 33025-A OPP Decision Number: 534726

#### Dear Mrs. Anastasiou:

The U.S. Environmental Protection Agency (EPA or Agency) has received and begun its in-depth review of the subject application and has determined that it is incomplete and that further information is needed. This letter is a written notification of those deficiencies and identifies your options under 40 CFR § 152.105 and Section 33 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended by the Pesticide Registration Improvement Extension Act (PRIA 3). Your options under 40 CFR § 152.105 and Section 33 of FIFRA are addressed separately because each involves a different time frame and set of options for responding to this letter. Please ensure that you consider each of the sections below in determining how and when you respond to this letter.

#### 40 CFR § 152.105

In accordance with 40 CFR § 152.105, you are allowed 75 days from the date of this letter, ending 09 01, 2018, to provide a response concerning the deficiencies listed in this letter. Your response may include making corrections to complete the application, or notifying the EPA of the date on which you expect to complete the application, or withdrawing your application. If you do not respond to this letter within 75 days or if you respond with a date on which you expect to complete the application but fail to meet that scheduled date, the EPA will treat the application as if you had withdrawn it. Withdrawal

Page 2 of 4 EPA File Symbol 33025-A OPP Decision No. 534726

concludes the EPA's review of your application. Any subsequent submission of the same application must then be submitted as a new application with a new deadline for the EPA to make a determination on your application and subject to a new registration service fee.

At this time, the EPA bas identified the following deficiencies in its review of the subject application:

 The cited MRID's for the physical chemical data requirements below did not include the methods that were used. Methods used in determining the following physical/chemical characteristics for Citronella oil must be provided.

[26]

CXALL

OCSPP 830.6313 Stability to normal and elevated temperatures, metals and metal ions:

OCSPP 830.6315 Flammability:

OCSPP 830.6317 Storage Stability

OCSPP 830.6320 Corrosion characteristics

OCSPP 830,7300 Density/Relative Density/Bulk Density, and

OCSPP 830.7950 Vapor pressure.

2) The cited MRID's for the physical chemical data requirements below did not include numerical values and methods that were used. Measurable numerical values and method of determination for these physical/chemical characteristics of Citronella oil must be provided.

CKUL

OCSPP 830.7000 pH;

OCSPP 830.7050 UV/ Visible light absorption:

OCSPP 830.7100 Viscosity:

OCSPP 830,7220 Boiling point:

OCSPP 830, 7550, 830,7560,

OCSPP 830.7570 Partition Coefficient (n-Octanol/water), and

OCSPP 830.7840 Water solubility.

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and a

- 4) Product performance data must be submitted and, specifically, should support all claims against public health pests appearing on the product label. You chose the "cite all" method to satisfy product performance data requirement, however, no efficacy study has been found suitable for characterizing efficacy of the proposed product against mosquitoes in the USA. Specifically, product performance data is needed for determination of space of effective repellency covered by one canister, how many burning canisters are needed for effective coverture of a given space, and how to place canisters for optimal coverture of a given space.
- 5) You must revise the proposed product label to include the following use instructions:

If theres no data,

Data Gray. SLA produs-

Page 3 of 4 EPA File Symbol 33025-A OPP Decision No. 534726

- Do not use in windy conditions.
- Do not tip torch as fuel can spill and cause fire.
- Do not use gasoline or other combustible or flammable fluids.
- Do not place torch under covered shelter.
- · Do not do not place torch near pedestrian traffic, wood, clothing or dry vegetation.
- Adjust wick height no higher than ¼ inches.
- · Keep clothing, hair and face away from flame.
- To extinguish flame, place snuffer cap completely over wick until flame is extinguished.

Further review of your application and your response to the deficiencies may identify additional deficiencies and you will be so informed.

#### FIFRA Section 33/PRIA

This application is also subject to a deadline for making a determination on this application under FIFRA Section 33. Pesticide Registration Service Fees, established under the Pesticide Registration Improvement Act of 2003 (PRIA). The time frame for the EPA to make a determination on this application ends on 08 31 2018. Because the deadline for the EPA to make a determination on this application expires before the end of the 75 days you have to respond to the deficiencies noted above, you have the following three options:

- Establish a New Due Date and Resolve the Issues. You may work with us to establish a new Section 33/PRIA deadline that allows for an appropriate response to the 75-day letter. If you choose this option, you need to contact the EPA no later than 08-17, 2018, to discuss a time frame that allows you to address the deficiencies listed above and the EPA to make a regulatory decision.
- 2. Withdraw the Application. Alternatively, you may notify us no later than 08 17, 2018, that you are withdrawing your application. As discussed previously in this letter, withdrawal concludes the EPA's review of your application; however, you may resubmit your application after the deficiencies have been addressed. Should you choose to resubmit your application, it would be subject to a new deadline for making a determination on your application and a new registration service fee. Since a fee was paid, the EPA will provide any applicable refund as soon as practicable.<sup>1</sup>
- 3. Not Respond. If the EPA does not hear from you by 08 17, 2018, the Agency, in meeting its obligation under Section 33/PRIA, may issue a determination to not grant your application. While a determination to not grant an application would allow the EPA to have met its obligation under Section 33 of FIFRA to issue a determination by a specified date, this determination is neither a denial of the application pursuant to Section 3(c)(6) of FIFRA or withdrawal of the application. Thus, the EPA will continue to diligently work on any such application as long as the EPA receives a response to a deficiency notice within the 75 days described previously in this letter.

Please respond to this letter by 08 17, 2018, by contacting Menyon Adams by telephone at (703) 347-8496 or via email at adams.menvon@epa.gov, with a response and for any questions concerning this

<sup>&</sup>lt;sup>4</sup> See <a href="http://www2.epa.gov/pria-fees-overview-pria-fee-reduction-and-refund-formula">http://www2.epa.gov/pria-fees-overview-pria-fee-reduction-and-refund-formula</a> for more information on refunds.

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letter. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely.

12 -

For Linda Hollis, Chief Biochemical Pesticides Branch Biopesticides and Pollution

Prevention Division (7511P)

Office of Pesticide Programs

Sci. Science review for new EP with unregistered source of a.i. DP Number(s): 445771 EPA Reg. or File Symbol No: 33025-A



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

#### OFFICE OF CHEMICAL SAFETY AND POLUTION PREVENTION/OFFICE OF PESTICIDE PROGRAMS

#### **MEMORANDUM**

DATE:

05/15/2018

SUBJECT:

Science Review in support of registration of new end-use product, Cleanburn,

containing 3% w/w Citronella oil as its active ingredient from unregistered source.

**Decision Number:** 

534726

DP Number:

445771 33025-A

EPA File Symbol Number:

Biochemical

Chemical Class: PC Code:

021901

CAS Number:

8000-29-1

Active Ingredients:

Citronella oil

Tolerance Exemptions:

Non-food

MRID Numbers:

505214-01thru 505214-09

FROM:

Clara Fuentes, PhD.

Entomologist

Risk Assessment Branch

Biopesticides & Pollution Prevention Division (7511P)

THRU:

Catherine Eiden, Senior Advisor

Risk Assessment Branch

Biopesticides & Pollution Prevention Division

TO:

Menyon Adams, Regulatory Action Leader

Biochemical Pesticides Branch

Biopesticides & Pollution Prevention Division (7511P)

#### ACTION REQUESTED

Lewis & Harrison Consultants in Government Affairs on behalf of Lamplight Farms, Inc. is requesting registration of a citronella-based mosquito repellent, Cleanburn, containing an unregistered source of active ingredient, Citronella oil, corresponding to the commercial variety "Java," extracted from *Cymbopogon winterianus*. The registrant is fulfilling product chemistry data requirements for the unregistered active ingredient in Cleanburn with data previously submitted for registration of Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). The source for the oil of citronella in Monarch 1101A and Clearburn is identical. The source of Citronella in Cleanburn remains unchanged from the time of the original registration of Monarch 1101A, and thus the registrant is bridging to MRIDs 486497-01, 486497-03, and 417857-03 respectively, for Manufacturing process of the active ingredient, Citronella oil, Discussion on formation of impurities; Enforcement analytical method that was employed for quantification of Citronella oil present in Monarch 1101A, and Physical/Chemical characteristics of Citronella oil Technical. The registrant references MRID 486497-02 in MRID 503898-02 for Preliminary Analysis of Citronella oil that was conducted for registration of Monarch 1101A.

Data on Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Cleanburn, is provided in MRID 503898-01. Data on Physical/Chemical Characteristics of enduse product, Cleanburn, is provided in MRID 503898-03.

Tier I acute mammalian toxicity for the end-use product, Cleanburn, has been addressed with data in MRID 503898-05 for Acute oral; MRID 503898-06 for Acute eye irritation, and MRID 503898-07 for Acute dermal irritation.

Tier I acute mammalian toxicity for the active ingredient, Citronella oil, has been addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These toxicity studies correspond to Citronella oil, commercial variety "Java."

Tier I subchronic mammalian toxicity data, required for the active ingredient supplied from unregistered source, have been addressed with rationale in MRID 503898-11 for waiving further studies. MRID 503898-11 references mutagenicity data in MRIDs 417857-01 and 417857-02, and Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105) with references therein.

Non-target organisms' data requirements are addressed by bridging to data on Acute oral toxicity with Northern Bobwhite Quail (*Colinus virginianus*), A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*), and A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) in MRIDs 417474-09, 417474-10, and MRID 417474-11, respectively.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, is waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

Lastly, product performance data is addressed by the cite all method. In addition, this submission includes copies of product label, CSF for basic and alternate formulations, dated 2/06/2018, and updated data matrix to address deficiencies identified by the Agency in an Agency's deficiency letter, dated on January 29, 2018.

#### BACKGROUND INFORMATION

The proposed product, Cleanburn, contains 3% w/w Citronella oil, corresponding to the commercial variety "Java," extracted from Cymbopogon winterianus. The source and percent concentration of the active ingredient, Citronella oil (Java variety), present in both, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) and proposed product, Cleanburn, are identical. Thus, the registrant is bridging to product chemistry data submitted for registration of Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) to satisfy product chemistry data requirements for Citronella oil in Cleanburn that is supplied by same unregistered supplier and present at the same concentration as in referenced product, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). Cleanburn is a torch fuel formulation to be used outdoors as space repellent against mosquitoes. Label use directions instructs users to pour the content from the original container into vessel, canister or burner and wipe away any excess before lighting. The label doesn't specify space of effective repellency covered by one canister, or how many burning canisters are needed for effective coverture of a given space.

#### RECOMMENDATIONS AND CONCLUSIONS

#### <u>Product chemistry:</u>

- The registrant has adequately addressed product chemistry data requirements for end-use product, Cleanburn, and its active ingredient, Citronella oil, except for the following deficiencies concerning Physical/Chemical characteristics of the active ingredient.

  These data are bridged from MRID 417857-03 (Refer to Table 1). Referenced MRID 417857-03 doesn't provide methods for determination of Stability, Storage stability and corrosion characteristics, flammability, relative density or specific gravity, and vapor pressure. MRID 417857-03 doesn't provide quantifiable measurement of PH, visible light absorption, viscosity, boiling point, partition coefficient, and water solubility. These deficiencies listed below, should be resolved:
- 1a) The registrant needs to report the methods employed for determination of the following physical/chemical characteristics for Citronella oil:

OCSPP 830.6313 Stability to normal and elevated temperatures, metals and metal ions; OCSPP 830.6315 Flammability;

OCSPP 830.6317 Storage Stability and

OCSPP 830.6320 Corrosion characteristics

OCSPP 830.7300 Density/Relative Density/Bulk Density, and OCSPP 830.7950 Vapor pressure.

1b) Measurable numerical values and method of determination are needed for these physical/chemical characteristics of Citronella oil:

OCSPP 830.7000 pH;

OCSPP 830.7050 UV/ Visible light absorption;

OCSPP 830.7100 Viscosity;

OCSPP 830.7220 Boiling point;

OCSPP 830, 7550, 830,7560, and OCSPP 830,7570 Partition Coefficient (n-

Octanol/water), and

OCSPP 830.7840 Water solubility.

2 Manufacturing process of Cleanburn is described in MRID 503898-01. However, quantity of each ingredient used in the formulation of the product is not reported, and it should be reported, together with description of packaging material. Please, upgrade MRID 503898-01 by reporting amount of each component added to the formulation during producion process, and describe packaging and packaging material.

Classification of submitted studies for product chemistry:

<u>Cited MRID 486497-01</u>, Manufacturing process of the active ingredient, Citronella oil, and Discussion on formation of impurities is acceptable. (Refer to Confidential Appendix for details).

MRID 503898-02, bridging to MRID 486497-02 for Preliminary Analysis of Citronella oil, is acceptable. (Refer to Confidential Appendix for details).

<u>Cited MRID 486497-03</u>, is acceptable. Enforcement analytical method employed for quantification of Citronelle oil present in Monarch 1101A, containing 3% w/w Citronella oil from same unregistered source as Cleanburn, is suitable for quantification of Citronella oil content in Cleanburn. Citronella oil is present at same concentration in both products, and it is supplied from same unregistered source.

MRID 503898-01, Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Clearburn, is acceptable, pending revision of the manufacturing process. Steps followed during manufacturing process are described on pg. 22 and 23 in MRID 503898-01. However, quantity of each ingredient used in the formulation of the product is not specified, and it should be reported, together with information on packaging material. This volume also addresses product identity and composition of the active ingredient, Citronella oil. Refer to Confidential Appendix for details on product composition, manufacturing process and analytical methods.

Cited MRID 417857-03, Physical Chemical Characteristics of Citronella oil are unacceptable. The registrant needs to provide data for some of the physical/chemical data requirements that have not been properly addressed neither with applicable rationale nor with numerical values. For example, neither method of determination nor numerical measurement are provided for the following data: OCSPP 830.7000 pH; OCSPP 7050 UV/ Visible light absorption; OCSPP 830.7100 Viscosity; OCSPP 830.7220 Boiling point; OCSPP 830. 7550, OCSPP 830.7560, and OCSPP 830.7570 Partition Coefficient (n-Octanol/water), and OCSPP 830.7840 Water solubility. In addition, methods employed for determination of the following physical/chemical characteristics of Citronella oil need to be reported: OCSPP 830.6317 Storage Stability and OCSPP 830.6320 Corrosion characteristics; OCSPP 830.6313 Stability to normal and elevated temperatures, metals and metal ions; OCSPP 830.6315 Flammability; OCSPP 830.7300 Density/Relative Density/Bulk Density; OCSPP 830.7950 Vapor pressure. (Refer to Table 1, and to item # 1 and # 2 in list of deficiencies, above). Cited MRID 417857-03 doesn't provide this information.

MRID 503898-03, Physical/Chemical Characteristics of End-Use product, Cleanburn, is acceptable (Refer to Table 2).

Refer to Tables 1 and 2 for Physical Chemical Characteristics of Citronella oil and Cleanbun product, respectively.

#### Acute Mammalian Toxicity

Tier I Acute mammalian toxicity data for Citronella oil is acceptable. These data requirements have been adequately addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These cited studies correspond to Citronella oil, commercial variety "Java." Citronella oil is categorized under toxicity category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Tier I Acute mammalian toxicity data for end-use product, Cleanburn, has been adequately addressed with data in MRID 503898-05 for acute oral; MRID 503898-06 for acute eye irritation, and MRID 503898-07 for acute dermal irritation.

MRIDs 503898-05, 503898-06 and 503898-07 for Acute oral, Acute Eye irritation, and Acute dermal irritation, respectively, are acceptable.

MRID 503898-11, Study waiver request for Acute dermal, Acute inhalation, and Skin sensitization is acceptable. The registrant's rationale is based on the composition of the formulation (Refer to Confidential Appendix for product composition), use pattern (not for intentional application to human skin), and low toxicity profile of Citronella oil (toxicity category III for acute dermal, and toxicity category IV for acute inhalation and skin sensitization).

MRIDs 505214-01 thru 505214-05 are acceptable. These MRIDs cite Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving Tier I subchronic toxicity studies.

MRID 505214-01 Waiver request for immunotoxicity studies is supported by referenced data in MRIDs 417857-01, and 417857-02. Data in these studies show that Citronella oil is not mutagenic.

MRID 505214-02, Rationale, in support of waiving 90-day oral study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, oral exposure is not anticipated.

MRID 505214-03 Rationale\_in support of waiving 90-day dermal study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, intentional or prolong exposure to the product from application to human skin is unlikely.

MRIDs 505214-04 and 505214-05, Request for waiving 90-day Inhalation and Developmental toxicity studies, respectively, is based on Reregistration Eligibility Decision for Oil of Citronella (CASE 3105). These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), based on the low toxicity profile of Citronella oil (Commercial variety "Java," which is slightly toxic).

#### Non-target organisms:

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus) is acceptable.

Data on required Avian subacute dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by birds is not expected.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*) is acceptable. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) is acceptable. Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, is are waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

#### Product performance: Unacceptable.

Product performance data is required and needs to be submitted in support of efficacy claim against mosquitoes on the product label. The registrant is resorting to the "cite all" method to satisfy product performance data requirement, however, no efficacy study has been found

suitable for characterizing efficacy of the proposed product against mosquitoes in the USA. Thus, efficacy data on the proposed product need-to-should be submitted be submitted unless the registrant can submit efficacy data from me-too product, Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85). Efficacy data cited from Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85) is not in file with the Agency database. Specifically, product performance data should be provided is needed for determination of space of effective repellency covered by one canister, how many burning canisters are needed for effective coverture of a given space, and how to place canisters for optimal coverture of a given space.

#### Note to RAL

In addition, the product label should provide the following information directions concerning use instructions:

Do not use in windy conditions,

Do not tip torch as fuel can spill and cause fire.

Do not use gasoline or other combustible or flammable fluids

Do not place torch under covered shelter

Do not do not place torch near pedestrian traffic, wood, clothing or dry vegetation

Adjust wick height no higher than 34 inches.

Keep clothing, hair and face away from flame

To extinguish flame, place snuffer cap completely over wick until flame is extinguished.

#### CONCLUSION

Based on the review of available data referenced by the registrant, on product use pattern and composition, toxicological profile of oil of citronella, and its non-toxic mode of action, no anticipated adverse effects to human health, to-nontarget organisms, or the environment are expected from application of the proposed product when used according to label directions. However, no efficacy study on file has been found suitable for characterizing efficacy of the proposed product, Cleanburn, against mosquitoes in the USA. Thus, efficacy data on the proposed product need to be submitted unless the registrant can submit efficacy data from me-too product, Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85). Efficacy data cited from Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85) is not in file with the Agency database. Specifically, product performance data should be provided for determination of space of effective repellency covered by one canister, or how many burning canisters are needed for effective coverture of a given space.

#### STUDY SUMMARY

Product Chemistry:

TABLE 1. Physical and Chemical Properties for Citronella oil					
Guideline Reference No./Property	Description of Result	Methods			
830.6302 Color	Light amber	Visual observation			
830.6303 Physical State	liquid	Visual observation			
830.6304 Odor	Floral, grassy	Olfactory			
830.6313 Stability	Unstable in the presence of alkali. Unstable in the presence of acids (esterification may take place), many strong inorganic acids can cause decomposition and/or polymerization on prolong exposure to UV light in the presence of air.	Not provided			
830.6315 Flammability	170 °C	Not provided			
830.6317 Storage Stability	Stable under normal conditions.	Not provided			
830.6319 Miscibility	N/A The product is not emulsible liquid to be diluted with petroleum solvents	-			
830.6320 Corrosion Characteristics	Not corrosive	Method not provided			
830.7000 pH	Unknown Not provided				
830.7050 UV/ Visible light absorption	Unaddressed				
830.7100 Viscosity	Unknown.	Not provided			
830.7200 Melting point/ melting range	N/A	Not a solid			
830.7220 Boiling point	170 °C	Not provided			
830.7300 Density/Relative Density/Bulk Density	0.891 – 0.901 g/mL	Not provided			

TABLE 1. Physical and Chemical Properties for Citronella oil				
Guideline Reference No./Property	Description of Result	Methods		
830.7520 Particle size, fiber length, diameter distribution	N/A	N/A water soluble and no fibrous substance		
830. 7550 830.7560 830.7570 Partition Coefficient (n- Octanol/water)	Doesn't dissociate. No numerical value provided	No method of measurement reported		
830.7840 Water solubility	Soluble. No numerical value provided	No method of measurement reported		
830. 7950 Vapor pressure	There is no vapor pressure measurement available for Oil of Citronella, the values given are for the six constituents present in the greatest amounts:  Camphene* 3.0 mm Hg at 20°C (est)  Limonene 1.4 mm Hg at 25°C  Citronellal 0.23 mm Hg at 20°C  Geraniol 0.02 mm Hg at 20°C  Citronellol 0.015 mm Hg at 25°C  Me-isoeugenol* 0.01 mm Hg at 2QPC	Values marked with a * are estimated, all others have been taken from Flavor & Fragrance Ingredient data Sheets compiled by EMARIFM- FMA.		

Data from MRID 417857-03

TABLE 2. Physical and Chemical Properties for Cleanburn (basic and alternate formulations)				
Guideline Reference No./Property	Description of Result	Methods		
830.6302 Color	N/A	N/A for EP		
830.6303 Physical State	liquid	Visual observation		
830.6304 Odor	N/A	N/A for EP		
830.6313 Stability	N/A	N/A for EP		
830.6315 Flammability	N/A	The product doesn't contain combustible liquids		
830.6317 Storage Stability	65% geraniol after 14 days at 54°C ± 2°C.	Chromatographic analysis Geraniol peak area percent indicates percent geraniol in the product		
830.6319 Miscibility	N/A	The product is not emulsible liquid to be diluted with petroleum solvents.		
830.6320 Corrosion Characteristics	No signs of corrosion were noted on the commercial packing material, polyethylene terephthalate.	Visual inspection		
830.7000 pH	5.37	pH meter		
830.7100 Viscosity	2.5237 mm <sup>2</sup> /s (cSt)	Ubbelohde viscometer		
830.7300 Density/Relative Density/Bulk Density	0.8701 g/mL	CCL SOP 10.16 method		

Data from MRID 503898-03

### B. Acute Mammalian Toxicity

Table 3. Toxicological Profile of End-Use product, Cleanburn, Basic Formulation

MRID	Guideline	Test	Results LD50/LC50	Toxicity Category
503898-05	870.1100	Acute Oral Toxicity	>5000 mg/kg	IV
503898-11	870.1200	Acute Dermal	Waiver	Waiver

MRID 🚉	Guideline	Test	Results_LD50/LC50	Toxicity Category
		Toxicity		
503898-11	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
503898-06	870.2400	Primary Eye Irritation	Mildly irritating - free of irritation by 72 hours	III
503898-07	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
503898-11	870.2600	Skin Sensitization	Waiver	Waiver

Table 4. Toxicological Profile of End-Use product, Cleanburn, Alternate Formulation

MRID : ?	Guideline	Test	Résults :	Category
50389808	870.1100	Acute Oral Toxicity	>5000 mg/kg	IV
50389811	870.1200	Acute Dermal Toxicity	Waiver	Waiver
50389811	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
50389809	870.2400	Primary Eye Irritation	Minimally irritating - free of irritation by 48 hours	III
50389810	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
50389811	870.2600	Skin Sensitization	Waiver	Waiver

MRID 503898-11, Data waiver requests for Acute dermal, Acute inhalation, and Skin sensitization are based on the following rationale specific to each data requirement:

#### OCSPP 870.1200 Acute Dermal Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2:

- "2. Required unless test material is corrosive to skin or has a pH between
- < 2 or 11.5 >." The pH of Cleanburn is 5.37.

In addition, under conditions of use, Cleanburn is not expected to result in dermal exposure.

#### OCSPP 870.1300 Acute Inhalation Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 3:

"3. Required when the product consists of, or under conditions of use would result in, a respirable material (e.g., gas, volatile substances, or aerosol particulate)...."

Concerning Test Note 3, Cleanburn is a liquid and does not consist of a respirable material, such as a gas, vapor or particulate.

#### OCSPP 870.2600 Skin Sensitization:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2 & 4:

"2. Required unless test material is corrosive to skin or has a pH between < 2 or 11.5 >."

Concerning Test Note 2, the pH of Cleanburn is 5.37.

Concerning Test Note 4, under conditions of use Cleanburn is not expected to result in repeated dermal exposure.

In addition, the battery of acute mammalian toxicity studies already conducted on Citronella oil show that Citronella oil is of low mammalian toxicity, classified under toxicity category III for acute oral, acute dermal, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Table 5. Toxicological Profile of Citronella oil

Study Type/OCSPP Guideline	LD <sub>50</sub> /LC <sub>50</sub> /Results	Toxicity Category	MRID (Java variety)	
Acute Oral Toxicity/OCSPP 870.1100	> 4,860 mg/kg		431794-01	
Acute Dermal Toxicity/OCSPP 870.1200	> 2,000 mg/kg	III	431671-01	
Acute Inhalation Toxicity/OCSPP 870.1300	> 3.1 mg/L	IV	431671-02	
Acute Eye Irritation/OCSPP 870.2400	Mild irritant	III	431671-03	
Acute Dermal Irritation/OCSPP 870.2500	slightly irritant.	III	431671-04	
Skin Sensitization/OCSPP 870.2600	Non- sensitizer	IV	431671-05	
Hypersensitivity incidents	None reported			

The following Tier I Subchronic toxicity data are required for the active ingredient Citronella oil from an unregistered source; OCSPP 870.3100 90-day oral; OCSPP 870.3250 90-day dermal; OCSPP 90-day inhalation; OCSPP 870.3700 Prenatal development, and mutagenicity studies, OCSPP 870.5100 Bacterial reverse mutation test, and OCSPP 870.5300 / 870.5375 In vitro

<sup>&</sup>quot;4. Required if repeated contact to human skin is likely to occur under conditions of use"

mammalian cell assay, are required for active ingredient Citronella oil from unregistered source. The registrant is addressing these data requirements by bridging to data previously submitted for registration of Citronella oil technical (TGAI), and by providing the following rationale in support for waiving further testing:

According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), These data requirements were previously waived by the Agency for the following reasons:

- 1. The acute mammalian studies listed on Table 5, showed no significant adverse effects for various routes of exposure (Toxicity Category III for acute oral, dermal toxicity, acute eye irritation, and acute dermal irritation, and toxicity category IV for acute Inhalation and skin sensitization). (Refer to Table 5 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).

Specifically, the registrant has submitted MRIDs 505214-01 thru 505214-05 to address each Tier I subchronic toxicity data requirement individually:

#### MRID 505214-01, Waiver request for immunotoxicity.

The registrant is citing Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving additional immunotoxicity testing. According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), these data were previously waived by the Agency. Cited mutagenicity studies, Salmonella / mammalian microsome reverse mutation assay in MRIDs 417857-01, and *In vitro* Citogenetic Assay, measuring chromosomal frequencies in Chinese hamster ovary cells in MRID 417857-02, show that Citronella oil is not mutagenic. No increase in number of histidine revertants per plate with or without S9 (3300  $\mu$ g/plate/+S9; 1,000  $\mu$ g/plate/-S9, respectively) were reported in MRID 417857-01, and no chromosomal aberrations frequencies in Chinese hamster ovary with or without S9 (150  $\mu$ g/plate/+S9; 75.5  $\mu$ g/plate/-S9, respectively) were observed in MRID 417857-02 study.

MRID 505214-02, Waiver request for 90-day oral study is based on the following rationale: According to the regulations in 40 CFR §158.2050, a 90-day oral toxicity study is required if the use pattern of the active ingredient is likely to result in repeated oral exposure to humans. Cleanburn will be used as torch fuel. Therefore, it is not expected that there would be any oral exposure.

Cleanburn will be used as torch fuel. Therefore, it is not expected that there would be any

oral exposure.

MRID 505214-03, Waiver request for 90-day dermal toxicity study is based on footnote #7 per 40 CFR §158.2050. According to the regulations in 40 CFR §158.2050, the data is required if the product is purposely applied to human skin. Cleanburn will be used as torch fuel. Therefore, it is not expected that there will be intentional or prolong exposure to the product from application to human skin.

MRIDs 505214-04 and 505214-05, 90-day Inhalation and Developmental toxicity, respectively. These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), based on the following rationale:

- The acute mammalian studies listed on Table 5, showed no significant adverse effects by various routes of exposure (Toxicity Category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and toxicity category IV for acute Inhalation and skin sensitization). (Refer to Table 5 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).
- 5. Immunotoxicity data in referenced studies, MRIDs 417857-01 and 417857-02 show that Citronella oil is not mutagenic.

#### C. Non-Target Organisms

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus).

The acute oral LD<sub>50</sub> value for nNorthern bobwhite quail exposed to oil of citronella as a single oral dosage was greater than 2250 mg/kg. The LOAEL was 2,250 mg/kg. The NOAEL was 1,350 mg/kg, based on the reduction in body weight for all birds at 2250 mg/kg. Based on these values, oil of citronella is classified as Non-toxic to birds via the oral route.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (Oncorhyncus mykiss)

The  $LC_{50} > 17.3$  mg/L is based on nominal concentration of oil of citronella. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (Daphnis magna).

The EC<sub>50</sub> = 26.4 mg/L at 48 hours with 95% CL (13.0 mg - 36.0 mg oil of citronella). Based on these results, Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Data on required Avian dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by birds is not expected

Data on Non-target plants and non-target insects, OCSPP 850.4000 and 850.3020, respectively, have been waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

<u>Product Performance</u>: No efficacy study on substantially similar product has been found. Therefore, efficacy studies in file for different, and no substantially similar formulations, are not suitable for characterizing performance of Cleanburn product. Product performance data is required needed for registration of Cleanburn, with a claim claiming of efficacy against mosquitoes.

cc: Clara Fuentes, RAL Menyon Adams, BPPD Chron File, IHAD/ARS FT, PY-S: 05/15/2018.



Sci. Science review for new EP with unregistered source of a.i. DP Number(s): 445771

EPA Reg. or File Symbol No: 33025-A



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLUTION PREVENTION/OFFICE OF PESTICIDE PROGRAMS

#### **MEMORANDUM**

DATE:

05/15/2018

SUBJECT:

Science Review in support of registration of new end-use product, Cleanburn,

containing 3% w/w Citronella oil as its active ingredient from unregistered source.

Decision Number:

534726

DP Number:

445771

EPA File Symbol Number:

33025-A Biochemical

Chemical Class: PC Code:

021901

CAS Number:

8000-29-1

Active Ingredients:

Citronella oil

Tolerance Exemptions:

Non-food

MRID Numbers:

505214-01thru 505214-09

FROM:

Clara Fuentes, PhD.

Entomologist

Risk Assessment Branch

Biopesticides & Pollution Prevention Division (7511P)

THRU:

Catherine Eiden, Senior Advisor

Risk Assessment Branch

Biopesticides & Pollution Prevention Division

TO:

Menyon Adams, Regulatory Action Leader

Biochemical Pesticides Branch

Biopesticides & Pollution Prevention Division (7511P)

#### **ACTION REQUESTED**

Lewis & Harrison Consultants in Government Affairs on behalf of Lamplight Farms, Inc. is requesting registration of a citronella-based mosquito repellent, Cleanburn, containing an unregistered source of active ingredient, Citronella oil, corresponding to the commercial variety "Java," extracted from *Cymbopogon winterianus*. The registrant is fulfilling product chemistry data requirements for the unregistered active ingredient in Cleanburn with data previously submitted for registration of Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). The source for the oil of citronella in Monarch 1101A and Clearburn is identical. The source of Citronella in Cleanburn remains unchanged from the time of the original registration of Monarch 1101A, and thus the registrant is bridging to MRIDs 486497-01, 486497-03, and 417857-03 respectively, for Manufacturing process of the active ingredient, Citronella oil, Discussion on formation of impurities; Enforcement analytical method that was employed for quantification of Citronella oil present in Monarch 1101A, and Physical/Chemical characteristics of Citronella oil Technical. The registrant references MRID 486497-02 in MRID 503898-02 for Preliminary Analysis of Citronella oil that was conducted for registration of Monarch 1101A.

Data on Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Cleanburn, is provided in MRID 503898-01. Data on Physical/Chemical Characteristics of enduse product, Cleanburn, is provided in MRID 503898-03.

Tier I acute mammalian toxicity for the end-use product, Cleanburn, has been addressed with data in MRID 503898-05 for Acute oral; MRID 503898-06 for Acute eye irritation, and MRID 503898-07 for Acute dermal irritation.

Tier I acute mammalian toxicity for the active ingredient, Citronella oil, has been addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These toxicity studies correspond to Citronella oil, commercial variety "Java."

Tier I subchronic mammalian toxicity data, required for the active ingredient supplied from unregistered source, have been addressed with rationale in MRID 503898-11 for waiving further studies. MRID 503898-11 references mutagenicity data in MRIDs 417857-01 and 417857-02, and Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105) with references therein.

Non-target organisms' data requirements are addressed by bridging to data on Acute oral toxicity with Northern Bobwhite Quail (*Colinus virginianus*), A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*), and A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) in MRIDs 417474-09, 417474-10, and MRID 417474-11, respectively.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, is waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

Lastly, product performance data is addressed by the cite all method. In addition, this submission includes copies of product label, CSF for basic and alternate formulations, dated 2/06/2018, and updated data matrix to address deficiencies identified by the Agency in an Agency's deficiency letter, dated on January 29, 2018.

#### BACKGROUND INFORMATION

The proposed product, Cleanburn, contains 3% w/w Citronella oil, corresponding to the commercial variety "Java," extracted from *Cymhopogon winterianus*. The source and percent concentration of the active ingredient, Citronella oil (Java variety), present in both, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) and proposed product, Cleanburn, are identical. Thus, the registrant is bridging to product chemistry data submitted for registration of Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3) to satisfy product chemistry data requirements for Citronella oil in Cleanburn that is supplied by same unregistered supplier and present at the same concentration as in referenced product, Tiki Insect Repellent Monarch 1101A (EPA Reg. No. 33025-3). Cleanburn is a torch fuel formulation to be used outdoors as space repellent against mosquitoes. Label use directions instruct users to pour the content from the original container into vessel, canister or burner and wipe away any excess before lighting. The label doesn't specify space of effective repellency covered by one canister, or how many burning canisters are needed for effective coverture of a given space.

#### RECOMMENDATIONS AND CONCLUSIONS

#### Product chemistry:

- The registrant has adequately addressed product chemistry data requirements for end-use product, Cleanburn, and its active ingredient, Citronella oil, except for the following deficiencies concerning Physical/Chemical characteristics of the active ingredient.

  These data are bridged from MRID 417857-03 (Refer to Table 1). Referenced MRID 417857-03 doesn't provide methods for determination of Stability, Storage stability and corrosion characteristics, flammability, relative density or specific gravity, and vapor pressure. MRID 417857-03 doesn't provide quantifiable measurement of PH, visible light absorption, viscosity, boiling point, partition coefficient, and water solubility. These deficiencies listed below, should be resolved:
- 1a) The registrant needs to report the methods employed for determination of the following physical/chemical characteristics for Citronella oil:

OCSPP 830.6313 Stability to normal and elevated temperatures, metals and metal ions;

OCSPP 830.6315 Flammability;

OCSPP 830.6317 Storage Stability

OCSPP 830.6320 Corrosion characteristics

OCSPP 830.7300 Density/Relative Density/Bulk Density, and OCSPP 830.7950 Vapor pressure.

1b) Measurable numerical values and method of determination are needed for these physical/chemical characteristics of Citronella oil:

OCSPP 830.7000 pH;
OCSPP 830.7050 UV/ Visible light absorption;
OCSPP 830.7100 Viscosity;
OCSPP 830.7220 Boiling point;
OCSPP 830.7550, 830.7560, and OCSPP 830.7570 Partition Coefficient (n-Octanol/water), and
OCSPP 830.7840 Water solubility.

2 Manufacturing process of Cleanburn is described in MRID 503898-01. However, quantity of each ingredient used in the formulation of the product is not reported, and it should be reported, together with description of packaging material. Please, upgrade MRID 503898-01 by reporting amount of each component added to the formulation during producion process, and describe packaging and packaging material.

Classification of submitted studies for product chemistry:

<u>Cited MRID 486497-01</u>, Manufacturing process of the active ingredient, Citronella oil, and Discussion on formation of impurities is acceptable. (Refer to Confidential Appendix for details).

MRID 503898-02, bridging to MRID 486497-02 for Preliminary Analysis of Citronella oil, is acceptable. (Refer to Confidential Appendix for details).

<u>Cited MRID 486497-03</u>, is acceptable. Enforcement analytical method employed for quantification of Citronelle oil present in Monarch 1101A, containing 3% w/w Citronella oil from same unregistered source as Cleanburn, is suitable for quantification of Citronella oil content in Cleanburn. Citronella oil is present at same concentration in both products, and it is supplied from same unregistered source.

MRID 503898-01, Product Identity & Composition, Formulation Process, Discussion of Formation of Impurities, Certified Limits, and Enforcement Analytical Method for End-Use product, Clearburn, is acceptable, pending revision of the manufacturing process. Steps followed during manufacturing process are described on pg. 22 and 23 in MRID 503898-01. However, quantity of each ingredient used in the formulation of the product is not specified, and it should be reported, together with information on packaging material. This volume also addresses product identity and composition of the active ingredient, Citronella oil. Refer to Confidential Appendix for details on product composition, manufacturing process and analytical methods.

Cited MRID 417857-03, Physical Chemical Characteristics of Citronella oil are unacceptable. The registrant needs to provide data for some of the physical/chemical data requirements that have not been properly addressed neither with applicable rationale nor with numerical values. For example, neither method of determination nor numerical measurement are provided for the following data: OCSPP 830.7000 pH; OCSPP 7050 UV/ Visible light absorption; OCSPP 830.7100 Viscosity; OCSPP 830.7220 Boiling point; OCSPP 830. 7550, OCSPP 830.7560, and OCSPP 830.7570 Partition Coefficient (n-Octanol/water), and OCSPP 830.7840 Water solubility. In addition, methods employed for determination of the following physical/chemical characteristics of Citronella oil need to be reported: OCSPP 830.6317 Storage Stability and OCSPP 830.6320 Corrosion characteristics; OCSPP 830.6313 Stability to normal and elevated temperatures, metals and metal ions; OCSPP 830.6315 Flammability; OCSPP 830.7300 Density/Relative Density/Bulk Density; OCSPP 830.7950 Vapor pressure. (Refer to Table 1, and to item # 1 and # 2 in list of deficiencies, above). Cited MRID 417857-03 doesn't provide this information.

MRID 503898-03, Physical/Chemical Characteristics of End-Use product, Cleanburn, is acceptable (Refer to Table 2).

Refer to Tables 1 and 2 for Physical Chemical Characteristics of Citronella oil and Cleanbun product, respectively.

#### Acute Mammalian Toxicity

Tier I Acute mammalian toxicity data for Citronella oil is acceptable. These data requirements have been adequately addressed by bridging to MRID 431794-01 for Acute oral; MRID 431671-01 for Acute dermal; MRID 431671-02 for acute inhalation; MRID 431671-03 for Acute eye irritation; MRID 431671-04 for Acute dermal irritation, and MRID 431671-05 for Skin sensitization. These cited studies correspond to Citronella oil, commercial variety "Java," Citronella oil is categorized under toxicity category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Tier I Acute mammalian toxicity data for end-use product, Cleanburn, has been adequately addressed with data in MRID 503898-05 for acute oral; MRID 503898-06 for acute eye irritation, and MRID 503898-07 for acute dermal irritation.

MRIDs 503898-05, 503898-06 and 503898-07 for Acute oral, Acute Eye irritation, and Acute dermal irritation, respectively, are acceptable.

MRID 503898-11, Study waiver request for Acute dermal, Acute inhalation, and Skin sensitization is acceptable. The registrant's rationale is based on the composition of the formulation (Refer to Confidential Appendix for product composition), use pattern (not for intentional application to human skin), and low toxicity profile of Citronella oil (toxicity category III for acute dermal, and toxicity category IV for acute inhalation and skin sensitization).

MRIDs 505214-01 thru 505214-05 are acceptable. These MRIDs cite Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving Tier I subchronic toxicity studies.

MRID 505214-01 Waiver request for immunotoxicity studies is supported by referenced data in MRIDs 417857-01, and 417857-02. Data in these studies show that Citronella oil is not mutagenic.

MRID 505214-02, Rationale in support of waiving 90-day oral study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, oral exposure is not anticipated.

MRID 505214-03 Rationale\_in support of waiving 90-day dermal study is based on the use pattern of Cleanburn that will be used as torch fuel. Therefore, intentional or prolong exposure to the product from application to human skin is unlikely.

MRIDs 505214-04 and 505214-05, Request for waiving 90-day Inhalation and Developmental toxicity studies, respectively, is based on Reregistration Eligibility Decision for Oil of Citronella (CASE 3105). These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), based on the low toxicity profile of Citronella oil (Commercial variety "Java," which is slightly toxic).

#### Non-target organisms:

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus) is acceptable.

Data on required Avian subacute dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by birds is not expected.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (*Oncorhyncus mykiss*) is acceptable. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (*Daphnis magna*) is acceptable. Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Required data on Non-target plants and non-target insects, OCSPP 850.4000 and OCSPP 850.3020, respectively, are waived based on minimal exposure to plants and insects given the use pattern of the product, and the repellent effect of citronella oil on insects.

#### Product performance: Unacceptable.

Product performance data is required and needs to be submitted in support of efficacy claim against mosquitoes on the product label. The registrant is resorting to the "cite all" method to satisfy product performance data requirement, however, no efficacy study has been found

suitable for characterizing efficacy of the proposed product against mosquitoes in the USA. Thus, efficacy data on the proposed product should be submitted unless the registrant can submit efficacy data from me-too product, Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85). Efficacy data cited from Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85) is not in file with the Agency database. Specifically, product performance data is needed for determination of space of effective repellency covered by one eanister, how many burning canisters are needed for effective coverture of a given space, and how to place canisters for optimal coverture of a given space.

#### Note to RAL

In addition, the product label should provide the following directions concerning use instructions:

Do not use in windy conditions,

Do not tip torch as fuel can spill and cause fire.

Do not use gasoline or other combustible or flammable fluids

Do not place torch under covered shelter

Do not do not place torch near pedestrian traffic, wood, clothing or dry vegetation

Adjust wick height no higher than 3/4 inches.

Keep clothing, hair and face away from flame

To extinguish flame, place snuffer cap completely over wick until flame is extinguished.

#### CONCLUSION

Based product use pattern and composition, toxicological profile of oil of citronella, and its non-toxic mode of action, no anticipated adverse effects to human health, nontarget organisms, or the environment are expected from application of the proposed product when used according to label directions. However, no efficacy study on file has been found suitable for characterizing efficacy of the proposed product, Cleanburn, against mosquitoes in the USA. Thus, efficacy data on the proposed product need to be submitted unless the registrant can submit efficacy data from me-too product, Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85). Efficacy data cited from Cutter Insect Repellent Prometheus (EPA Reg. No. 121-85) is not in file with the Agency database. Specifically, product performance data should be provided for determination of space of effective repellency covered by one canister, or how many burning canisters are needed for effective coverture of a given space.

#### STUDY SUMMARY

#### Product Chemistry:

TABLE 1. Physical and Chemical Properties for Citronella oil				
Guideline Reference No./Property	Description of Result	Methods		
830.6302 Color	Light amber	Visual observation		
830.6303 Physical State	liquid	Visual observation		
830.6304 Odor	Floral, grassy	Olfactory		
830.6313 Stability	Unstable in the presence of alkali. Unstable in the presence of acids (esterification may take place), many strong inorganic acids can cause decomposition and/or polymerization on prolong exposure to UV light in the presence of air.	Not provided		
830.6315 Flammability	170 °C	Not provided		
830.6317 Storage Stability	Stable under normal conditions.	Not provided		
830.6319 Miscibility	N/A The product is not emulsible liquid to be diluted with petroleum solvents	•		
830.6320 Corrosion Characteristics	Not corrosive	Method not provided		
830.7000 pH	Unknown Not provided			
830.7050 UV/ Visible light absorption	Unaddressed			
830.7100 Viscosity	Unknown.	Not provided		
830.7200 Melting point/ melting range	N/A	Not a solid		
830.7220 Boiling point	170 °C	Not provided		
830.7300 Density/Relative Density/Bulk Density	0.891 – 0.901 g/mL	Not provided		

TABLE 1. Physical ar	TABLE 1. Physical and Chemical Properties for Citronella oil					
Guideline Reference No./Property	Description of Result	Methods				
830.7520 Particle size, fiber length, diameter distribution	N/A	N/A water soluble and no fibrous substance				
830. 7550 830.7560 830.7570 Partition Coefficient (n- Octanol/water)	Doesn't dissociate. No numerical value provided	No method of measurement reported				
830.7840 Water solubility	Soluble. No numerical value provided	No method of measurement reported				
830. 7950 Vapor pressure	There is no vapor pressure measurement available for Oil of Citronella, the values given are for the six constituents present in the greatest amounts:  Camphene* 3.0 mm Hg at 20°C (est)  Limonene 1.4 mm Hg at 25°C  Citronellal 0.23 mm Hg at 20°C  Geraniol 0.02 mm Hg at 20°C  Citronellol 0.015 mm Hg at 25°C  Me-isoeugenol* 0.01 mm Hg at 25°C	Values marked with a * are estimated, all others have been taken from Flavor & Fragrance Ingredient data Sheets compiled by EMARIFM- FMA.				

Data from MRID 417857-03

TABLE 2. Physical and Chemical Properties for Cleanburn (basic and alternate formulations)				
Guideline Reference No./Property	Description of Result	Methods		
830.6302 Color	N/A	N/A for EP		
830.6303 Physical State	liquid	Visual observation		
830.6304 Odor	N/A	N/A for EP		
830.6313 Stability	N/A	N/A for EP		
830.6315 Flammability	N/A	The product doesn't contain combustible liquids		
830.6317 Storage Stability	65% geraniol after 14 days at 54°C ± 2°C.	Chromatographic analysis Geraniol peak area percent indicates percent geraniol in the product		
830.6319 Miscibility	N/A	The product is not emulsible liquid to be diluted with petroleum solvents.		
830.6320 Corrosion Characteristics	No signs of corrosion were noted on the commercial packing material, polyethylene terephthalate.	Visual inspection		
830.7000 pH	5.37	pH meter		
830.7100 Viscosity	2.5237 mm <sup>2</sup> /s (cSt)	Ubbelohde viscometer		
830.7300 Density/Relative Density/Bulk Density	0.8701 g/mL	CCL SOP 10.16 method		

Data from MRID 503898-03

### B. Acute Mammalian Toxicity

Table 3. Toxicological Profile of End-Use product, Cleanburn, Basic Formulation

14010 5. 102110		VIII 01 211 0 0 0 1		
MRID C	duideline	Test	Results LD <sub>50</sub> /LC <sub>50</sub>	Toxicity Category
503898-05 8	70.1100	Acute Oral Toxicity	>5000 mg/kg	IV
503898-11 8	70.1200	Acute Dermal	Waiver	Waiver

11

MRID	Guideline	Test	Results LD50/LC50	Toxicity Category
		Toxicity		
503898-11	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
503898-06	870.2400	Primary Eye Irritation	Mildly irritating - free of irritation by 72 hours	Ш
503898-07	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
503898-11	870.2600	Skin Sensitization	Waiver	Waiver

Table 4. Toxicological Profile of End-Use product, Cleanburn, Alternate Formulation

MRID	Guideline	Test	Results	Category
50389808	870.1100	Acute Oral Toxicity	>5000 mg/kg	IV
50389811	870.1200	Acute Dermal Toxicity	Waiver	Waiver
50389811	870.1300	Acute Inhalation Toxicity	Waiver	Waiver
50389809	870.2400	Primary Eye Irritation	Minimally irritating - free of irritation by 48 hours	III
50389810	870.2500	Primary Dermal Irritation	Slightly irritating to skin	IV
50389811	870.2600	Skin Sensitization	Waiver	Waiver

MRID 503898-11, Data waiver requests for Acute dermal, Acute inhalation, and Skin sensitization are based on the following rationale specific to each data requirement:

#### OCSPP 870.1200 Acute Dermal Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2:

"2. Required unless test material is corrosive to skin or has a pH between

< 2 or 11.5 >." The pH of Cleanburn is 5.37.

In addition, under conditions of use, Cleanburn is not expected to result in dermal exposure.

#### OCSPP 870.1300 Acute Inhalation Toxicity:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 3:

"3. Required when the product consists of, or under conditions of use would result in, a respirable material (e.g., gas, volatile substances, or aerosol particulate)..."

Concerning Test Note 3, Cleanburn is a liquid and does not consist of a respirable material, such as a gas, vapor or particulate.

#### OCSPP 870.2600 Skin Sensitization:

Per the Agency's Data Requirements for Biochemical as specified in §158.2050: Biochemical pesticides toxicology data requirements table, Test Note 2 & 4:

"2. Required unless test material is corrosive to skin or has a pH between < 2 or 11.5 >."

Concerning Test Note 2, the pH of Cleanburn is 5.37.

Concerning Test Note 4, under conditions of use Cleanburn is not expected to result in repeated dermal exposure.

In addition, the battery of acute mammalian toxicity studies already conducted on Citronella oil show that Citronella oil is of low mammalian toxicity, classified under toxicity category III for acute oral, acute dermal, acute eye irritation, and acute dermal irritation, and under toxicity category IV for acute inhalation and skin sensitization.

Table 5. Toxicological Profile of Citronella oil

Study Type/OCSPP Guideline	LD <sub>50</sub> /LC <sub>50</sub> /Results	Toxicity Category	MRID (Java variety)
Acute Oral Toxicity/OCSPP 870.1100	> 4,860 mg/kg	III	431794-01
Acute Dermal Toxicity/OCSPP 870.1200	> 2,000 mg/kg	III	431671-01
Acute Inhalation Toxicity/OCSPP 870.1300	> 3.1 mg/L	IV	431671-02
Acute Eye Irritation/OCSPP 870.2400	Mild irritant	Ш	431671-03
Acute Dermal Irritation/OCSPP 870.2500	slightly irritant.	III	431671-04
Skin Sensitization/OCSPP 870.2600	Non- sensitizer	IV	431671-05
Hypersensitivity incidents	None reported		

The following Tier I Subchronic toxicity data are required for the active ingredient Citronella oil from an unregistered source: OCSPP 870.3100 90-day oral; OCSPP 870.3250 90-day dermal; OCSPP 90-day inhalation; OCSPP 870.3700 Prenatal development, and mutagenicity studies, OCSPP 870.5100 Bacterial reverse mutation test, and OCSPP 870.5300 / 870.5375 *In vitro* 

<sup>&</sup>quot;4. Required if repeated contact to human skin is likely to occur under conditions of use"

mammalian cell assay, The registrant is addressing these data requirements by bridging to data previously submitted for registration of Citronella oil technical (TGAI), and by providing the following rationale in support for waiving further testing:

According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), These data requirements were previously waived by the Agency for the following reasons:

- 1. The acute mammalian studies listed on Table 5, showed no significant adverse effects for various routes of exposure (Toxicity Category III for acute oral, dermal toxicity, acute eye irritation, and acute dermal irritation, and toxicity category IV for acute Inhalation and skin sensitization). (Refer to Table 5 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).

Specifically, the registrant has submitted MRIDs 505214-01 thru 505214-05 to address each Tier I subchronic toxicity data requirement individually:

#### MRID 505214-01, Waiver request for immunotoxicity.

The registrant is citing Reregistration Eligibility Decision for Oil of Citronella (CASE 3105), with referenced MRID studies therein, in support for waiving additional immunotoxicity testing. According to the Reregistration Eligibility Decision (RED) for Oil of Citronella (CASE 3105), these data were previously waived by the Agency. Cited mutagenicity studies, Salmonella / mammalian microsome reverse mutation assay in MRIDs 417857-01, and *In vitro* Citogenetic Assay, measuring chromosomal frequencies in Chinese hamster ovary cells in MRID 417857-02, show that Citronella oil is not mutagenic. No increase in number of histidine revertants per plate with or without S9 (3300 µg/plate/+S9; 1,000 µg/plate/-S9, respectively) were reported in MRID 417857-01, and no chromosomal aberrations frequencies in Chinese hamster ovary with or without S9 (150 µg/plate/+S9; 75.5 µg/plate/-S9, respectively) were observed in MRID 417857-02 study.

MRID 505214-02, Waiver request for 90-day oral study is based on the following rationale: According to the regulations in 40 CFR §158.2050, a 90-day oral toxicity study is required if the use pattern of the active ingredient is likely to result in repeated oral exposure to humans. Cleanburn will be used as torch fuel. Therefore, it is not expected that there would be any oral exposure.

MRID 505214-03, Waiver request for 90-day dermal toxicity study is based on footnote #7 per 40 CFR §158.2050. According to the regulations in 40 CFR §158.2050, the data is required if the product is purposely applied to human skin. Cleanburn will be used as torch fuel. Therefore,

it is not expected that there will be intentional or prolong exposure to the product from application to human skin.

MRIDs 505214-04 and 505214-05, 90-day Inhalation and Developmental toxicity, respectively. These data requirements have been waived in the Reregistration Eligibility Decision for Oil of Citronella (CASE 3105) based on the following rationale:

- The acute mammalian studies listed on Table 5, showed no significant adverse effects by various routes of exposure (Toxicity Category III for acute oral, acute dermal toxicity, acute eye irritation, and acute dermal irritation, and toxicity category IV for acute Inhalation and skin sensitization). (Refer to Table 5 for toxicological profile of Citronella oil).
- 2. The GRAS status of oil of citronella (21 CFR 182.2).
- 3. No report of hypersensitivity of adverse effects following oral and dermal exposure (which is currently accurate).
- 4. This rationale was used to develop and support an exemption under Section 25(b).
- 5. Immunotoxicity data in referenced studies, MRIDs 417857-01 and 417857-02 show that Citronella oil is not mutagenic.

#### C. Non-Target Organisms

MRID 417474-09, Acute oral toxicity with Northern Bobwhite Quail (Colinus virginianus).

The acute oral LD<sub>50</sub> value for Northern bobwhite quail exposed to oil of citronella as a single oral dosage was greater than 2250 mg/kg. The LOAEL was 2,250 mg/kg. The NOAEL was 1,350 mg/kg, based on the reduction in body weight for all birds at 2250 mg/kg. Based on these values, oil of citronella is classified as Non-toxic to birds via the oral route.

MRID 417474-10, A 96-hour static acute toxicity test with Rainbow trout (Oncorhyncus mykiss)

The  $LC_{50} > 17.3$  mg/L is based on nominal concentration of oil of citronella. Oil of citronella has been classified as slightly toxic to fresh water fish.

MRID 41747411, A 48-hour static acute toxicity test with the Cladoceran (Daphnis magna).

The EC<sub>50</sub> = 26.4 mg/L at 48 hours with 95% CL (13.0 mg – 36.0 mg oil of citronella). Based on these results, Oil of citronella has been classified as slightly toxic to aquatic invertebrates.

Data on required Avian dietary toxicity study, OSCPP 850.2200, is waived based on low acute oral toxicity. Oil of citronella is classified as Non-toxic to birds via the oral route. Furthermore, based on its use pattern, ingestion of the proposed product by hirds is not expected

Data on Non-target plants and non-target insects, OCSPP 850.4000 and 850.3020, respectively, have been waived based on minimal exposure to plants and insects given the use pattern of the product and the repellent effect of citronella oil on insects.

<u>Product Performance</u>: No efficacy study on substantially similar product has been found. Therefore, efficacy studies in file for different, and no substantially similar formulations, are not suitable for characterizing performance of Cleanburn product. Product performance data is required for registration of Cleanburn with a claimof efficacy against mosquitoes.

cc: Clara Fuentes, RAL Menyon Adams, BPPD Chron File, IHAD/ARS FT, PY-S: 05/15/2018.

CONFIDENTIAL APPENDIX





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		DATA MATRI	X		
Date September 11,	17 EPA Reg. No./File Symbol 33025				Page 1 of 2
Applicant's/Registrant's Na			Product		
Lamplight Farms Inc, 49	900 North Lilly Road, Menomonee Falls, WI 53051		Cleanburn		
ngredient(s): Citronella (	Oil (PC code 021901)				
Luideline Reference Numb	per Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT CHEMISTRY					
880.1100	Product Identity & Composition	50389801	Lamplight Farms Inc. (33025)	OWN	T
880.1200	Description of starting materials, production & formulation process used to produce product	50389801	Lamplight Farms Inc. (33025)	OWN	
880.1400	Discussion of formation of impurities	50389801	Lamplight Farms Inc. (33025)	OWN	
830,1700	Preliminary Analysis	50389802 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
830.1750	Certified Limits	50389801	Lamplight Farms Inc. (33025)	OWN	
830.1800	Enforcement Analytical Method	50389801 48649702	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
Physical/Chemical Properties					
830.6302	Color	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6303	Physical State	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6304	Odor	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6315	Flammability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6319	Miscibility	N/A			Footnote 1
830.6317	Storage stability	50389803	Lamplight Farms Inc. (33025)	OWN	
830.6320	Corrosion characteristics	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7000	рН	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7100	Viscosity	50389803	Lamplight Farms Inc. (33025)	OWN	
830.7300	Density/Relative Density	50389803	Lamplight Farms Inc. (33025)	OWN	
TOXICOLOGY					
	Acute Toxicity Summary	50389804	Lamplight Farms Inc. (33025)	OWN	
870.1100	Acute Oral Toxicity	50389805 50389808	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN OWN	
870.1200	Acute Dermal Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
870.1300	Acute Inhalation Toxicity	50389811	Lamplight Farms Inc. (33025)	OWN	Waiver
Signature :			Name and Title:		Date
Georgia ana	מאמל סטק. d Paper versions available. Submit only Paper version.		Georgia Anastasiou Agent for Lan	npiight Farms, inc	Sept. 11, 2017



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		DATA MATRI	X		
Date September 11, 2017			EPA Reg. No./File Symbol 33025	<del>-</del>	Page 2
Applicant's/Registrant's Name Lamplight Farms Inc, 4900 I	& Address: North Lilly Road, Menomonee Falls, WI 53051		Product Cleanburn		l <u></u>
Ingredient(s): Citronella Oil (F	<sup>2</sup> C code 021901)		· - · - · - · · · · · · · · · · · · · ·		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400	Primary Eye Irritation	50389806 50389809	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2500	Primary Dermal Irritation	50389807 50389810	Lamplight Farms Inc. (33025) Lamplight Farms Inc. (33025)	OWN	
870.2600	Skin Sensitization	50389811	Lamplight Farms Inc. (33025)	OWN	Waive
EFFICACY		<u> </u>			,
	Product Performance	CITE-ALL	See-Attached List	PAY	<del></del>

<u>FOOTNOTES</u>

1. A miscibility study is not applicable since the subject product is not diluted with petroleum distillates.

Sugar Wilder	Name and Title: Georgia Anastasiou Agent for Lamplight Farms, Inc	Date Sept. 11, 2017
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#### Do not send the form to this address. DATA MATRIX FOR ACTIVE INGREDIENT Page 1 of 3 EPA Reg. No./File Symbol 33025-XX Date September 11, 2017 Applicant's/Registrant's Name & Address: Product Lamplight Farms Inc. 4900 North Lilly Road, Menomonee Falls, WI 53051 CLEANBURN ingredient(s): Oil of citronella (PC code 021901) Guideline Reference Number Status Note Guideline Study Name MRID Number Submitter Product Chemistry Lamplight Farms (33025) 880,1100 Product Identity & Composition 48649701 880.1200 Description of starting materials. 48649701 Lamplight Farms (33025) production & formulation process used to produce product Lamplight Farms (33025) 880.1400 Discussion of formation of impurities 48649701 830,1700 Lamplight Farms (33025) Preliminary analysis 48649702 OLD (1) 830,1750 Certified Limits 41785703 Candle Corp (009201) 830,1800 Lamplight Farms (33025) Enforcement analytical method 48649702 OLD (1)830.6302 Candle Corp (009201) Color 41785703 OLD (1) 830.6303 Physical State 41785703 Candle Corp (009201) (1) OLD 830,6304 41785703 Candle Corp (009201) Odor (1) 830.6313 OLD Stability 41785703 Candle Corp (009201) OLD $\overline{(1)}$ 830.6315 Flammability 41785703 Candle Corp (009201) (1) 830.6317 Candle Corp (009201) OLD Storage Stability 41785703 OLD (1) 830,6319 41785703 Candle Corp (009201) Miscibility OLD $\overline{(1)}$ 830.6320 Corrosion Characteristics 41785703 Candle Corp (009201) (1) OLD 830,7000 Нα 41785703 Candle Corp (009201) (1) OLD 830.7100 Viscosity 41785703 Candle Corp (009201) (1) 830,7200 OLD Melting point 41785703 Candle Corp (009201) (1) 830.7220 **Boiling** point 41785703 Candle Corp (009201) OLD 830,7300 41785703 OLD (1) Candle Corp (009201) Density (2) 830,7520 Particle Size N/A (3) 830.7550-830.7570 Partition coefficient N/A (1) 830,7840 Water solubility 41785703 Candle Corp (009201) OLD (1) 830,7950 Vapor Pressure 41785703 Candle Corp (009201) OLD

Signature Suegra anesosion Name and Title: Georgia Anastasiou, Agent for Lamplight Farms Inc. Date Sept. 11, 2017



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	DA <sup>*</sup>	TA MATRIX FOR ACTIVE	INGREDIENT			
Date September 11, 201	<u>-                                     </u>		EPA Reg. No./File Symbol 3302	5-XX	<del></del>	Page 2 of 3
	oplicant's/Registrant's Name & Address: amplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051		Product CLEANBURN			
Ingredient(s): Oil of citronella	(PC code 021901)		•		_	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status		Note
TOXICOLOGY			•		<del></del>	·
152B-10	Acute Oral Toxicity	41747402 43179401	Candle Corp (009201) Citronella Joint Venture (6	l l	OLD	(1) (1)
152B-11	Acute Dermal Toxicity	41747403 43167101	Candle Corp (009201) Citronella Joint Venture (6	<b> </b>	OLD OLD	(1) (1)
152B-12	Acute Inhalation Toxicity	41747404 43167102	Candle Corp (009201) Citronella Joint Venture (6		OLD OLD	(1) (1)
152B-13	Primary Eye Irritation	41747405 43167103	Candle Corp (009201) Citronella Joint Venture (6		OLD OLD	(1) (1)
152B-14	Primary Dermal Irritation	41747406 43167104	Candle Corp (009201) Citronella Joint Venture (6	<b> </b>	OLD OLD	(1) (1)
152B-15	Dermal Sensitization	41747407 43167105	Candle Corp (009201) Citronella Joint Venture (6	<b> </b>	OLD OLD	(1) (1)
152B-16	Hypersensitivity					Not Applicable
152B-17	Microbial mutagenicity	41786701 41785702 41747408	Citronella Joint Venture (6 Citronella Joint Venture (6 Candle Corp (009201)	7736)	OLD OLD OLD	(1)
152B-18	Immunotoxicity	-			-	Waived (4)
152B-20	90-Day oral toxicity	-			_	Waived (4)
152B-21	90-Day dermal toxicity				-	Waived (4)
152B-23	Developmental Toxicity	_				Waived (4)

Signature	Name and Title:	Date
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#### DATA MATRIX FOR ACTIVE INGREDIENT Page 2 of 3 September 11, 2017 EPA Reg. No./File Symbol 33025-XX Date Applicant's/Registrant's Name & Address: Product Lamplight Farms Inc, 4900 North Lilly Road, Menomonee Falls, WI 53051 CLEANBURN Ingredient(s): Oil of citronella (PC code 021901) Status Note Guideline Reference Number MRID Number Guideline Study Name Submitter Candle Corp (009201) OLD Citronella Joint Venture (67736) OLD **OLD** Candle Corp (009201) Citronella Joint Venture (67736) OLD Candle Corp (009201) OLD Citronella Joint Venture (67736) OLD OLD Candle Corp (009201) Citronella Joint Venture (67736) OLD OLD Candle Corp (009201) Citronella Joint Venture (67736) OLD OLD Candle Corp (009201) Citronella Joint Venture (67736) OLD Citronella Joint Venture (67736) OLD OLD Citronella Joint Venture (67736) OLD Candle Corp (009201)

Signature	Name and Title: Georgia Anastasiou, Agent for Lamplight Farms Inc.	Date Sept. 11, 2017
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	DATA MATRIX FOR ACTI	VE INGREDIENT		
ate September 11, 2017		EPA Reg. No./File Symbol	33025-XX	Page 3 of 3
oplicant's/Registrant's Name & Address: amplight Farms Inc, 4900 North Lilly Road, Menomone	e Falls, WI 53051	Product CLEANBURN		
gredient(s): Oil of citronella (PC code 021901)				
uideline Reference Number Guideline Study Name	MRID Number	Submitter	Stat⊔s	Nole
		Candle Corp (00920	1) OLD	(1)
			•	Waived (4)
		Candle Corp (00920	1) OLD	(1)
		Candle Corp (00920	1) OLD	(1)
				Waived (4)
			_	Waived (4)

Signature	Name and Title:	Date
Leogia anevarion	Georgia Anastasiou, Agent for Lamplight Farms Inc.	Sept. 11, 2017
ED/ Sam 9570 25/9 97) Electronic and Papar various qualchia Culturit adu Papar variona		



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DATA MATRIX FOR ACTIVE INGREDIENT									
Date September 11, 2017		EPA Reg. No./File Symbol 330	25-XX		Page 3 of 3				
Applicant's/Registrant's Name 8 Lamplight Farms Inc, 4900 N	Address: lorth Lilly Road, Menomonee Falls, WI 53051	Product CLEANBURN							
ogredient(s): Oll of citronella	(PC code 021901)								
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status		Note			
ECOLOGICAL EFFECTS									
154B-6	Acute Avian Oral	41747409	Candle Corp (009201)		OLD	(1)			
154B-7	Avian Subacute Dietary Toxicity	<del></del>			•	Waived (4)			
154B-8	Fish toxicity	41747410	Candle Corp (009201)		OLD	(1)			
154B-9	Invertebrate Toxicity	41747411	Candle Corp (009201)		OLD	(1)			
154B-10	Nontarget plants	-				Waived (4)			
154B-11	Nontarget insects				-	Waived (4)			
ENVIRONMENTAL FATE									
	ALL	Ţ <i></i>			-	Waived (4)			

#### **FOOTNOTES**

- 1. Per pages 27-28 of the Oil of Citronella RED, these generic data requirements have been fulfilled.
- 2. The dissociation constant data requirement is not applicable since citronella does not have any dissociable groups.
- 3. The partition coefficient data requirement is not applicable since citronella is not a non-polar organic substance.
- 4. Per pages 28-29 of the Oil of Citronella RED, these generic data requirements have been waived.

Signature	Name and Title:	Date
Ÿ .	Georgia Anastasiou, Agent for Lamplight Farms Inc.	Sept. 11, 2017
Beogra anevasion	Good Sid Antiques of the State	1 - 1, - 2 - 1
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.	Agency Internal (	Use Copy



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	D	ATA MATRIX FOR ACTIV	'E INGREDIENT				
Date September 11, 2017		· <del></del> ·	EPA Reg. No./File Symbol 33	025-XX	Page 1 of 3		
Applicant's/Registrant's Name 8	plicant's/Registrant's Name & Address:		Product				
Lamplight Farms Inc, 4900 I	North Lilly Road, Menomonee Falls,	WI 53051	CLEANBURN				
Ingredient(s): Oil of citronella	(PC code 021901)	•					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
			· · ·	<del></del>			
-			Lamplight Farms (3302)	5)	<del></del>		
			Lamplight Farms (3302)		<del></del>		
			Campingsit i aims (5562)	"			
			Lamplight Farms (3302)	5)			
			Lamplight Farms (3302)				
			Candle Corp (009201)	OLD			
			Lamplight Farms (3302)				
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
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			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD	****		
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
			Candle Corp (009201)	OLD			
Signature			Name and Title:		T Data		
ō,			Georgia Anastasiou, Agent f	or Lamblight Forms Inc.	Date Sept. 11, 2017		
Guzgia anassasion			Occigia Aliastasiou, Agent I	or Lampiight Parins IRC,	36pt. 11, 2017		
PA. Form 8570-35 (9-97) Electronic and Paper	r versions available. Submit only Paper version.			Publi	c File Copy		

## XBPPD New Product/Registered AI

## 90 Day Technical Screen

Date: 12/21/2017

Review Date: 12/21/2017

File Symbol No.: 33025-A

Reviewers: Clara Fuentes (Science reviewer)

BPB/MPB: RAB

Comments: Action Code B673. New EP with unregistered source of a.i.

Pass/Fail: Fail for lack of separate rationales addressing each individual data waiver request.

Hours Worked: 8 hours (Clara)

	cesses dinautation	i Nee		ingvey,	garangan dan kanggarangan dan dan dan dan dan dan dan dan dan d
1.			) Ozb	orms	The second secon
a.	8570-1: Application for	×			
	Registration				
b.	8570-4: C <b>S</b> F	х			
c.	8570-27: Formulator's		<u> </u>	x	
	Exemption				
d.	8570-34: Certification with	х			
	Respect to Data				
e.	8570-35: Data Matrix	х			Own data and cite-all, selective method
	Are any of the data that you		ļ		
	are citing compensable?	1			
	Has an Offer To Pay been	İ	1		
	made?	-			
	Is documentation of said offer				
	included in this application				
	(Refer to 40 CFR 152.86 Cite All				
	Method and/or 152.90				
	Selective Method)?		i		
2:-5	Confidential Statemen	offerr	nula (C	SF)=rev	ew for alternates for mulations (too. 1888)
a.	Signed and dated	Х			
b.	Food-use? (If no, skip to 1e.)		x		
c.	All inerts cleared for food-use			x	
d.	Active cleared for food-use			х	
e.	All inerts cleared for nonfood-	×			180.910
	use (skip if food-use)				

f.	Does the formulation contain	· —	T	T	
1.	1	-	×		
	an active ingredient that is not				
	a biochemical (conventional or	İ	i		
<del></del>	antimicrobial actives)?	<del> </del>	<del> </del>	<del>-</del> -	Disease and between label and CCC
g.	CSF accurately reflects label		X		Discrepancy between label and CSF
					concerning concentration of a.i. and
					name of active ingredient.
h.	Active(s) + Inert(s) = 100%	x			
i.	CAS #s for all inerts	х			
j.	Chemical names provided for	х			
	inerts (must list name of	İ		İ	
	impurity)				
k	Units in all applicable boxes	X			
l	Proprietary inerts? If so, is		х		
	info. on file with the Agency?				
m.	Supplier information	Х	1		
	adequately listed				
n	Certified limits correct?	X			
о.	If certified limits are outside			n/a	
	recommended range,	ļ	İ		
	explanation provided?				
p.	Microbial: culture collection			n/a	
	reference	i			
q.	Microbial: strain designation			n/a	
	for a.i.				
r.	Microbial: potency provided			n/a	
L	with a.i.		<u> </u>		
S	Alternate formulations?	x	<u> </u>	<u> </u>	
t.	Are alternate formulations	×	]		
1	actually alternate and not a		!		
	new product?	<u> </u>		<u> </u>	
u.	Is Reg. No. of source of Al on		x		Unregistered source
	CSF?				
3,		Z- L-) A Mindel Married	ata Ma	trix-MF	Or EP
а.	Separate data matrix for the	Х	İ		
	product		-		İ
		İ			
	If the study(ies) listed states				
	"conditionally required" (CR),				
	read the data table's footnotes				
	to determine if is required.		ļ. <u> </u>	-	
b.	All product chemistry/product	X			
	analysis data requirements				
	addressed (guideline by				
	guideline; Refer to Prod Chem				
L	data table 40 CFR 158.2030).	<u>L</u>		<u> </u>	

	<del></del>	<del></del>	<del></del>		
C.	All mammalian/human health		×		No rationale is provided addressing each
ŀ	toxicology/ pathogenicity data	1			individual guideline for Tier I subchronic
	requirements addressed		1		data requirement. The registrant
ii .	(guideline by guideline; Refer				addresses these data requirements
	to Human Health data table 40				making reference to pages 28 thru 29 of
	CFR 158.2050).		<u> </u>		EPA Citronella RED.
	All Tier 1 nontarget organism		×		Non-target organisms' data are
	toxicology/ pathogenicity data				addressed with reference to old data,
d.	requirements addressed				MRIDs 41747409 thru 41747411, and to
	(guideline by guideline; Refer				pages 27 thru 29 in EPA Citronella RED.
İ	to Nontarget data table 40 CFR				
	158.2060).		<u> </u>		
	Efficacy data must be	x			Cite-all, selective method.
e.	submitted and included on the	l		1 1	
İ	data matrix for the EP if claims	i			ĺ
	are being made for public		1		
	health pests on the product's	-		1 1	}
	label.				
f.	HSRB review required?		x		
4.		ta Regi	remer	its-Guid	leline Studies
					ee below for waivers and rationales.
a.	Product chemistry: do all	×	T		
	submitted studies appear to	1			J
	satisfy the data requirements	1	]		
	(all impurities over 0.1% must	İ	]		
	be identified and it must be				
	stated that they are not of		1	ļ į	
	toxicological concern)? (Refer				
	to Prod Chem data table 40	1			
	CFR 158.2030)				
	1				
	Some of the common				
	examples (but not all) of			1 1	
	deficiencies which prevent the				
	submission form being			i i	
	1			i i	
	forwarded for review are:			i i	
	Product chemistry data				
	requirement is was not				
	addressed.			i	
	Submitted product chemistry				
	,				
	data does not adequately				
	address the data requirement.				
	CSF not correctly filled out.				
	CSF is missing information				
	CSF is missing information Information on CSF does not				

b.	Toxicology: do all submitted studies appear to satisfy the data requirements? (Refer to Human Health data table 40 CFR 158.2050)  Some of the common examples (but not all) of deficiencies which prevent the submission form being forwarded for review are:  Data requirement was not addressed.  Inadequate argument for bridging data to the pending product.  Inadequate rationale submitted to address the data requirement.	X		Own data in addition to data bridged from substantially similar product EPA Reg. No. 33025-3 to satisfy Tier I acute toxicity testing.  No rationale is provided addressing each individual guideline for Tier I Subchronic Toxicity data requirement. The registrant addresses all these data requirements making reference to pages 28 thru 29 of EPA Citronella RED
C.	Nontargets: do all the submitted studies appear to satisfy the data requirements? (Refer to Nontarget data table 40 CFR 158.2060)  Some of the common examples (but not all) of deficiencies which prevent the submission form being forwarded for review are:  Data requirement s was not addressed.  Inadequate argument for bridging data to the pending product.  Inadequate rationale submitted to address the data requirement.		X	Not individually addressed. No rationale is provided addressing each individual guideline for non-target organisms' data requirement. The registrant addresses all these data requirements generically by making reference to pages 27 thru 28 of EPA Citronella RED

d.	Other (residue data, special studies, etc.)			×	
5 Note					AWaivers o rationale submitted to satisfy the data
requi	rements.				
a.	Are you requesting that you be waived (exempt/excused) from conducting any of the required studies for product chemistry, human health assessment (toxicology) or non-target organisms?  If so, have you indicated such with a valid satisfactory reason as to why you should be excused from conducting this study or studies? A common example (but not all) which prevent the submission from being forwarded for review for	X			Toxicology and Non-targets.  Data waiver is requested for Tier I Subchronic toxicity and non-targets, but no separate rationale addressing each individual guideline is submitted.
	· -				
	is that an inadequate reason				
b.	for the waiver request.  For each applicable data requirement, does the waiver request have a separate scientific rationale justifying why testing is not applicable and does this rationale appear to be valid enough such that the package can be forwarded for review?		x		Separate rationale requesting to waive each applicable study requirement needs to be submitted for Tier I subchronic toxicity and Non-target organisms.

c.	Does each waiver request		х	· · · · · · ·	Each guideline needs to be individually
L.	seem reasonable and justified?		^		addressed with separate rationale.
	seem reasonable and justineur				addressed with separate rationale.
	Some common examples (but				
	not all) which prevent the				
	submission form being				
	forwarded for review for :				·
1	ioi wai ded foi feview foi .				
	The reason for the waiver			j	
Ì	request is inadequate.				
	request is interested.			ı	
1	The product and/or a.i is 25(b)		i	l	
	or GRAS.		ļ		
				İ	
	The applicant indicated data		İ		
	were waived in the past but no		-		
]	record could be found or past		ļ		
li	data waiver is not appropriate	İ			
	to the pending product				
	pending product (ex:			i	
ļ	formulation (solid, gas, liquid)		i		
i	use site, target pest, etc.)				
6	<u>Data</u>	Require	ments	Ratio	nales/Literature
Note	: This section is for rationales only	/. This d	loes no	t apply	to requests submitted to waive the data
requi	rements.				
a.	Have rationales been		x	Ī	Not for each individual guideline
1	submitted in lieu of guideline				
	studies? Please note.		<u></u>	İ	
b	Does each rationale have		х		Only reference to EPA Citronella RED with
	scientific literature citations			i	references therein
	where applicable?				
C.	Are the rationale and scientific		X		
	citations organized in				
	reasonable order to facilitate				
	timely review and is each		İ		
	guideline addressed				
	individually?	L			

d.	Requests to bridge data:	х		Bridge to substantially similar product
				EPA Reg. No. 33025-3.
	TGAI:			
	Is the group out fourth a con-	,		
	Is the argument for the use of		1	
	information on a surrogate			
	chemical being made? Has the			
	registrant successfully			
	demonstrated the closeness in	1		
	relationship?			•
	FD.			EP:
	EP:			
	Do the rationales include		]	Yes. Same active ingredient from same
i	bridging information on a			source
	product formulation very		1	
	closely related to the pending			
	product formulation? Has the	•	1	1.
	registrant successfully			
	demonstrated the closeness in	1		
	relationship?	<u> </u>		
e.	Are copies of cited scientific		x	The registrant only references EPA Oil of
	literature included in the			Citronella RED
<b>-</b>	package?		ļ <u> </u>	
	Does the rationale appear to		×	No rationale submitted as separate
f.	be reasonable and scientific?	77640 37 3743		MRIDs
7. a.	Restricted Use Pesticide			
a.	statement (If applicable)		×	
<b></b> -	1 statement (ii applicable)		1 1	
b.	Product name, brand or	x		
b.	Product name, brand or trademark	×		
b. c.	1	x		Inconsistent with CSF in name and
	trademark			Inconsistent with CSF in name and concentration of a.i.
	trademark Ingredient statement correct?			
	trademark Ingredient statement correct? Microbial: strain designation			
c.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation	x		
c.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement	x		
c. d.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word	x		
c. d. e. f.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement	x x x		
c. d. e. f.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight	x x		concentration of a.i.
c. d. e. f.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and	x x x	x	
c. d. f. g. h.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No.	x x x x	X	concentration of a.i.
c. d. f. g. h.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address	x x x x	X	concentration of a.i.
c. d. f. g. h.	Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement:	x x x x	x	concentration of a.i.
c. d. f. g. h.	Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and	x x x x	X	concentration of a.i.
c. d. f. g. h.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and domestic animals	x x x x	X	concentration of a.i.
c. d. f. g. h.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and domestic animals Microbial: dusk mask	x x x x	x	concentration of a.i.
c. d. f. g. h. i.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and domestic animals	x x x x		concentration of a.i.
c. d. f. g. h.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and domestic animals Microbial: dusk mask statement Environmental hazards	x x x x	x	concentration of a.i.
c. d. e. f. g. h. i. j.	trademark Ingredient statement correct? Microbial: strain designation Microbial: potency designation "Keep Out of Reach of Children" (KOOROC) Statement Signal word First aid statement Net contents/net weight EPA Reg. No. and Establishment No. Company name and address Precautionary statement: hazards to human and domestic animals Microbial: dusk mask statement	x x x x		concentration of a.i.

m.	Storage and disposal	x			
o.	Warranty statement		х		
p.	Worker protection			х	
g.	Batch code	х			

Please use this template below when detailing deficiencies (or similarity issue for similarity screen) found in the technical screen. This is to be included in the checklist

EPA File symbol: 33025-A

Similarity Issue or Deficiency	Data/Information Submitted	Reason for Inadequacies	What Data/Information are Needed
Discrepancy between label and CSF concerning concentration of a.i. and name of active ingredient.	Product label and CSF.	The active ingredient name on product label is "Oil of Citronella". The active ingredient is listed on the CSF as Citronella oil.  The concentration of active ingredient listed on product label is 3%. The concentration of active ingredient listed on the CSF is 3.0%	The CSF and label need to be amended concerning the name and concentration of active ingredient. Both, name and concentration of active ingredient need to be consistent between label and CSF.
Study waiver requests for Subchronic Mammalian Toxicity data requirement as set forth in 40 CFR § 158.2050 are not individually addressed, guideline by guideline.		No study waiver rationale is provided addressing each individual guideline for the following Tier I Subchronic Toxicity data requirements:  90-day oral (OCSPP870.3100)  90-day dermal (OCSPP(870.3250)  90-day inhalation (OCSPP 870.3465)  Prenatal development (OCSPP 870.3700), and <i>In vitro</i> mammalian cell assay (OCSPP 870.5300/870.5375).  The registrant addresses all these data requirements making reference to pages 28 thru 29 of EPA Citronella RED	Separate MRIDs with specific rationales need to be submitted justifying to waive testing on the following Tier I Subchronic studies:  90-day oral (OCSPP870.3100)  90-day dermal (OCSPP(870.3250)  90-day inhalation (OCSPP 870.3465)  Prenatal development (OCSPP 870.3700), and In vitro mammalian cell assay (OCSPP 870.5300/870.5375).

Similarity Issue or Deficiency  Study waiver request for Non- target data requirements as set forth in 40 CFR § 158.2060 are not individually addressed, guideline by guideline.	MIRDs 417474-09 thru 417474-11 are cited to address data requirements: Avian Acute Oral (OCSPP 850.2100), and aquatic organisms testing, Fresh water fish acute toxicity (OCSPP 850.1075), and aquatic invertebrate acute toxicity, freshwater (OCSPP 850.1010)	The registrant addresses all these data requirements generically by making reference to pages 27 thru 28 of EPA Citronella RED:  Avian Dietary Toxicity (OCSPP 850.2200) Seedling emergence (OCSPP 850.4100) Vegetative vigor (OCSPP 850.4150) Non-target insect (OCSPP 880.4350)	Separate MRIDs with specific rationales need to be submitted justifying to waive testing on: Avian Dietary Toxicity (OCSPP 850.2200) Seedling emergence (OCSPP 850.4100) Vegetative vigor (OCSPP 850.4150) Non-target insect (OCSPP 880.4350)
--	---	---	---

## Listed Data Requirements for product Chemistry

880.1100	Product identity and composition
880.1200	Description of starting materials, production and formulation process
880.1400	Discussion of formation of impurities
830.1700	Preliminary Analysis
830.1750	Certified limits
830.1800	Enforcement Analytical methods
830.6302	Color
830.6303	Physical state
830.6304	Odor
830.6313	Stability to normal and elevated temperatures, metals and metal ions
830.6315	Flammability
830.6317	Storage stability
830.6319	Miscibility

830.6320	Corrosion characteristics
830.7000	Hq
830.7050	UV/Visible light absorption
830.7100	Viscosity
830.7200	Melting point
830.7220	Boiling point/boiling range
830.7300	Density/relative density/bulk density
830.7520	Particle size, fiber length, and diameter distribution
830.7550; 830	.7560; 830.7570 Partition coefficient (n-Octanol /Water)
830.7840	Water solubility
830.7950	Vapor pressure

## Tier I Acute and Subchronic Mammalian Toxicity Data Requirements

870.3100	90-day	oral (one species)
870.3250	90-day	dermal - rat
870.3465	90-day	inhalation – rat
870.3700	Prenata	l developmental - rat preferably
870.5100	Bacteri	al reverse mutation test
870.5300;	370.5375	In vitro mammalian cell assay

## Non-Target Organisms Data Requirements

850.2100	Avian Acute Oral
850.2200	Avian Dietary Toxicity
850.1075	Fish acute toxicity, fresh water
850.1010	Aquatic invertebrate acute toxicity, freshwater
850.4100	Terrestrial plant Toxicity: seedling emergence
850.4150	Terrestrial Plant Toxicity: vegetative vigor
880.4350	Non-target insect

#### PRODUCT CHEMISTRY, TOXICITY, AND NON-TARGET ORGANISM DATA REQUIREMENT CHECKLIST FOR TECHNICAL SCREENS.

THIS LIST IS TO BE USED FOR THE TECH SCREEN BY THE SCIENCE REVIEWER TO MAKE SURE ALL THE DATA REQUIREMENTS HAVE BEEN ADDRESSED. A CHECKLIST IS TO BE USED TO EACH END-USE PRODUCT AND/OR MANUFACTURING USE PRODUCT/TGAI. ALSO NOTE THAT THIS CHECKLIST DOES NOT TAKE INTO ACCOUNT PRODUCT

**EPA FILE SYMBOL: 33025-A** 

PRODUCT NAME: CLEANBURN

PRIA CODE: B673

EP OR MP: EP

DATE: 12/27/2017 CLARA FUENTES

### TABLE—BIOCHEMICAL PESTICIDES PRODUCT CHEMISTRY DATA REQUIREMENTS

			Test Substance			Was data addressed (MRID, citation) and how was it addressed (data, rationale, bridging)? If not addressed or inadequate why?
Guideline Number	Data Requirement	All Use Patterns	MP	EP	Test Notes	MRIDs listed in Data Matrix
Product Identity and	Composition	<u> </u>				
880.1100	Product identity and composition	R 	TGAI, MP	TGAI, EP	1, 2	MRID 503898-01
880.1200	Description of starting materials, production and formulation process	R	TGAI, MP	TGAI, EP	2, 3	MRID 503898-01
880.1400	Discussion of formation of impurities	R	TGAI and MP	TGAI and EP	4	MRID 503898-01
Analysis and Certifie	d Limits					

830.1700	Preliminary Analysis	CR	TGAI and MP	TGAI and EP	5, 8	MRID 503898-02
830.1750	Certified limits	R	MP	EP	6	503898-01
830.1800	Enforcement Analytical methods	R	MP	EP	7	503898-01
Physical and C	hemical Characteristics	<u> </u>			1	
830.6302	Color	R	TGAI	TGAI	8	503898-03
830.6303	Physical state	R	TGAI and MP	TGAI and EP	8	503898-03
830.6304	Odor	R	TGAI	TGAI	8	503898-03
830.6313	Stability to normal and elevated temperatures, metals and metal ions	R	TGAI	TGAI	8, 17	503898-03
830.6315	Flammability	CR	MP	EP	9	503898-03
830.6317	Storage stability	R	MP	EP		503898-03
830.6319	Miscibility	CR	МР	EP	10	503898-03
830.6320	Corrosion characteristics	R	MP	EP		503898-03
830.7000	рН	CR	TGAI and MP	TGAI and EP	8, 11	503898-03

830.7050	UV/Visible light absorption	R	TGAI	TGAI		503898-03
830.7100	Viscosity	CR	MP	ΕP	12	503898-03
830.7200	Melting point	CR	TGAI	TGAI	8, 13	503898-03
830.7220	Boiling point/boiling range	CR	TGAI	TGAI	8, 14	503898-03
830.7300	Density/relative density/bulk density	R	TGAI and	TGAI and EP	8, 18	503898-03
830.7520	Particle size, fiber length, and diameter distribution	CR	TGAI	TGAI	8, 15	503898-03
830.7550 830.7560 830.7570	Partition coefficient (n- Octanol Water)	CR	TGAI	TGAI	16	503898-03
830.7840	Water solubility	R	TGAI	TGAI	8	503898-03
830.7950	Vapor pressure	R	TGAI	TGAI	8, 19	503898-03

- (e) Test notes. The following test notes are applicable to the data requirements for biochemical pesticides product chemistry and are referenced in the last column of the table in paragraph (d) of this section.
  - 1. Data must be provided in accordance with §158.320.
  - 2. If the MP and EP are produced by an integrated formulation system (non-registered source), these data are also required on TGAI.
  - 3. Data must be provided in accordance with §§158.325, 158.330, and §158.335.
  - 4. Data must be provided in accordance with §158.340.

- 5. Data must be provided in accordance with §158.345. Also, required to support the registration of each manufacturing-use product (including registered TGAIs) and end-use products produced by an integrated formulation system. Data on other end-use products would be required on a case-by-case basis.
  - 6. Data must be provided in accordance with §158.350.
  - 7. Data must be provided in accordance with §158.355.
  - 8. If the TGAI cannot be isolated, data are required on the practical equivalent of the TGAI. EP testing may also be appropriate.
  - 9. Required if the product contains combustible liquids.
  - 10. Required if the product is an emulsifiable liquid and is to be diluted with petroleum solvents.
  - 11. Required if the test substance is soluble or dispersible in water.
  - 12. Required if the product is a liquid.
  - 13. Required when the technical chemical is a solid at room temperature.
  - 14. Required when the technical chemical is a liquid at room temperature.
  - 15. Required for water insoluble test substances (>10-sg/l) and fibrous test substances with diameter ≥0.1 μm.
  - 16. Required for organic chemicals unless they dissociate in water or are partially or completely soluble in water.
  - 17. Data on the stability to metals and metal ions is required only if the active ingredient is expected to come in contact with either material during storage.
  - 18. True density or specific density are required for all test substances. Data on bulk density is required for MPs or EPs that are solid at room temperature.
- 19. Not required for salts.

#### TABLE—BIOCHEMICAL PESTICIDES HUMAN HEALTH ASSESSMENT DATA REQUIREMENTS

Guideline		Use Patterns		Test Sub	Test Substance		Was data addressed (MRID, citation) and how was it addressed (data, rationale, bridging)? If not addressed or inadequate why?
Number	Data Requirement	Food	Nonfood	MP	EP	Test Notes	MRIDs fisted in data matrix
Tier I							
Acute Test	ting						
870.1100	Acute oral toxicity –	R	R	TGAI and MP	TGAI and EP	1	503898-05
							503898-04
870.1200	Acute dermal toxicity	R	R	TGAI and MP	TGAI and	1, 2	503898-11
	İ						503898-04
870.1300		R	R	TGAI and MP	TGAI and	3	503898-11
	toxicity - rat	ı					503898-04
870.2400	Primary eye irritation -	R	R	TGAI and MP	TGAI and	2	503898-06
	IADDR				<b>-</b> '		503898-04
870.2500	Primary dermal irritation	R	R	TGAI and MP	TGAI and	1, 2	503898-07
	mation						503898-10
							503898-04
870.2600	Dermal sensitization	R	R	TGAI and MP	TGAI and	2, 4	503898-11
							503898-04
none	Hypersensitivity incidents	R	R	All	AII	5	

Guideline Number	Data Requirement	Use Patterns		Test Substance		Test	Was data addressed (MRID, citation) and how was it addressed (data, rationale, bridging)? If not addressed or inadequate why?
		Food	Nonfood	MP	EP	Notes	MRIDs listed in data matrix
Subchroni	c Testing						·
870.3100	90-day oral (one species)	R	CR	TGAI	TGAI	6	Waiver request
870.3250	90-day dermal - rat	CR	CR	TGAI	TGAI	7	Waiver request
870.3465	90-day inhalation - rat	CR	CR	TGAI	TGAI	8	Waiver request
Developm	ental Toxicity			<u></u>		<b>.</b>	
870.3700	Prenatal developmental - rat preferably	R	CR	TGAI	TGAI	9	Waiver request
Mutagenio	city Testing						
870.5100	Bacterial reverse mutation test	R	CR	TGAI	TGAI	10	417867-01
							417857-02
							417474-08
870.5300 870.5375	In vitro mammalian cell assay	R	CR	TGAI	TGAI	10, 11	Waiver request
Tier II							
Mutagenio	city Testing ( <i>In vivo</i> cytog	enetics)					
870.5385 870.5895	In vivo Mammalian Cytogenetics	CR	CR	TGAI	TGAI	13	
Developm	ental Toxicity						

Guideline Number	Data Requirement	Use Patterns		Test Substance		Test	Was data addressed (MRID, citation) and how was it addressed (data, rationale, bridging)? If not addressed or inadequate why?
		Food	Nonfood	MP	EP	Notes	MRIDs listed in data matrix
870.3700	Prenatal developmental	CR	CR	TGAI	TGAI	9	n/a
Special Te	sts						
880.3550	Immunotoxicity	CR	CR	TGAI	TGAI	12, 13	n/a
Applicator/	User Exposure						
875.1100	Dermal outdoor exposure	CR	CR	TGAI	TGAI	15	n/a
875.1200	Dermal indoor exposure	CR	CR	TGAI	TGAI	15	n/a
875.1300	Inhalation outdoor exposure	CR	CR	TGAI	TGAI	15	n/a
875.1400	Inhalation indoor exposure	CR	CR	TGAI	TGAI	15	n/a
875.1500	Biological monitoring	CR	CR	TGAI	TGAI	15	n/a
Tier III							
Chronic To	esting/Special Testing	N/A					
880.3800	Immune response	CR	CR	TGAI	TGAI	14	n/a
870.3800	Reproduction and fertility effects	CR	CR	TGAI	TGAI	16	n/a
870.4100	Chronic oral - rodent and nonrodent	CR	CR	TGAI	TGAI	17	n/a

Guideline Number	Data Requirement	Use Patterns		Test Substance		Tonk	Was data addressed (MRID, citation) and how was it addressed (data, rationale, bridging)? if not addressed or inadequate why?
		Food	Nonfood	MP	EP	Test Notes	MRIDs listed in data matrix
870.4200	Carcinogenicity - two species - rat and mouse preferred	CR	CR	TGAI	TGAI	18	n/a
870.5380	Mammalian spermatogonial chromosome aberration test	CR	CR	TGAI	TGAI	19	n/a
Special Te	esting	N/A					
870.7200	Companion animal safety	CR	CR	NR	TGAI or EP	20	n/a

- (e) Test notes. The following test notes are applicable to the data requirements for biochemical pesticides human health assessment as referenced in the last column of the table in paragraph (d) of this section.
  - 1. Required unless the test material is a gas or highly volatile (vapor pressure >10-torr (mm/Hg)).
  - 2. Required unless the test material is corrosive to skin or has pH <2 or >11.5.
- 3. Required when the pesticide, under conditions of use, would result in respirable material (e.g., gas, volatile substance or aerosol/particulate), unless it is a straight chain lepidopteran pheromone.
  - 4. Required if repeated contact with human skin is tikely to occur under conditions of use.
  - 5. Hypersensitivity incidents must be reported as adverse effects data.
  - 6. Required for non-food uses that are likely to result in repeated oral exposure to humans.
- 7. Required to support uses involving purposeful application to the human skin or which would result in comparable prolonged human exposure to the product (e.g., insect repellents) and if any of the following criteria are met:
  - i. Data from a 90-day oral study are not required.

- ii. The active ingredient is known or expected to be metabolized differently by the dermal route of exposure than by the oral route and the metabolite is of toxicological concern.
  - iii. The use pattern is such that the dermal route would be the primary route of exposure.
  - 8. Required if there is a likelihood of significant levels of repeated inhalation exposure to the pesticide as a gas, vapor, or aerosol.
- 9. Required if the use of the product under widespread and commonly recognized practice may reasonably be expected to result in significant exposure to female humans (e.g., occupational exposure or repeated application of insect repellents directly to the skin). Tier I data is required on a different test species from Tier I data when developmental effects are observed in the first study and information on species-to-species extrapolation is needed.
  - 10. Required to support nonfood uses if either:
  - i. The use is likely to result in significant human exposure; or
- ii. The active ingredient (or its metabolites) is structurally related to a known mutagen or belongs to any chemical class of compounds containing a known mutagen. Additional mutagenicity tests that may have been performed plus a complete reference list must also be submitted. Subsequent testing may be required based on the available evidence.
  - 11. Choice of assay using either:
  - i. Mouse lymphoma L5178Y cells, thymidine kinase (tk) gene locus, maximizing assay conditions for small colony expression or detection;
- ii. Chinese hamster ovary (CHO) or Chinese hamster lung fibroblast (V79) cells, hypoxanthine-guanine phosphoribosyl transferase (hgprt) gene locus, accompanied by an appropriate in vitro test for clastogenicity; or
  - iii. CHO cells strains AS52, xanthine-guanine phosphoribosyl transferase (xprt) gene locus.
  - 12. Required if there are effects on hematology, clinical chemistry, lymphoid organ weights, and histopathology are observed in the 90-day studies.
  - 13. The micronucleus rodent bone marrow assay is preferred; however, rodent bone marrow assays using metaphase analysis (aberrations) are acceptable.
- 14. Required if adverse effects are observed in the Tier II immunotoxicity study. The protocol for evaluating adverse effects to the immune response should be developed after evaluating the effects noted in the immunotoxicity study.
- 15. These data are required when the data used for the human health assessment indicates that the biochemical may pose a potential hazard to the applicator/user.
  - 16. Required if there is evidence of:

- i. Endocrinological effects from the subchronic toxicity studies.
- ii. Developmental effects in the prenatal developmental toxicity study(s), or
- iii. Genotoxicity to mammals based on results from the mutagenicity tests.

The use of a combined study that utilizes the two-generation reproduction study in rodents (guideline 870,3800) as a basic protocol for the addition of other endpoints or functional assessments in the immature animal is encouraged.

- 17. Required if the potential for adverse chronic effects is indicated based on any of the following:
- i. The subchronic effect level established in the following Tier I studies: 90-day oral toxicity study, 90-day dermal toxicity study, or 90-day inhalation toxicity study.
  - ii. The pesticide use pattern (e.g., rate, frequency, and site of application).
  - iii. The frequency and level of repeated human exposure that is expected.
  - 18. Required if the product meets either of the following criteria:
- i. The active ingredient (or any of its metabolites, degradation products, or impurities) produce(s) in Tier I subchronic studies a morphologic effect (e.g., hyperplasia or metaplasia) in any organ that potentially could lead to neoplastic change.
- ii. Adverse cellular effects suggesting carcinogenic potential are observed in Tier II immunotoxicity and Tier III immune response study or in Tier II mammalian mutagenicity assays.

In addition, a 90-day range finding study in both rats and mice is required to determine the dose levels if carcinogenicity studies are required. If the mouse carcinogenicity study is not required, the 90-day mouse subchronic study is likewise not required.

- 19. Required if results from lower tiered mutation or reproductive studies indicate there is potential for chromosomal aberration to occur.
- 20. May be required if the product's use will result in exposure to domestic animals through, but not limited to, direct application or consumption of treated feed.

#### TABLE—BIOCHEMICAL PESTICIDES NONTARGET ORGANISMS AND ENVIRONMENTAL FATE DATA REQUIREMENTS

			Use Patterns						Was data addressed (MRID, citation) and he was it addressed (data, rationale, bridging) not addressed or inadequate why?
		Terrestrial	Aquatic	Greenhouse	Forestry,	Indoor	]		
Guideline Number	Data Requirement	Food/Feed/ Nonfood	Food/Nonfo od	Food/Nonfood	Residential		Test Substance	Test Notes	
Tier I							·		
Avian T	esting								
850.2100	Avian Acute Oral	R	R	CR	R	CR	TGAI, EP	1, 2, 3, 4	417474-09
850.2200	Avian Dietary Toxicity	R	R	CR	R	CR	TGAI, EP	1, 2, 3, 4	Waiver request
Aquatio	Organism Testing								
850.1075	Fish acute toxicity, fresh water	,R	R	CR	R	CR	TGAI, EP	2, 3, 4, 5	417474-10
850.1010	Aquatic invertebrate acute toxicity, freshwater	R	R	CR	R	CR	TGAI, EP	2, 3, 5	417474-11
Nontar	get Plant Testing	<u> </u>				<del></del>			
850.4100	Terrestrial plant Toxicity: seedling emergence	R	R	NR	R	NR	TGAI, EP	5	Waiver request

850.4150	Terrestrial Plant Toxicity: vegetative vigor	R	R	NR	R	NR	TGAI, EP	5	Waiver request
Insect <sup>-</sup>		<u>i</u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	
880,4350	Non-target insect	R	R	R	R	NR	TGAI	14	Waiver request
Tier II		1		I				L,,	,—————————————————————————————————————
Enviror	nmental Fate Testing	I				· · · · ·			Environmental fate data (concerning soil) should be addressed in support of non-Food Classif or request
163-1 (835.1230)	Sediment and soil adsorption/desorpt ion for parent and degradates		CR	CR	CR	NR	TGAI	6	n/a
163-1 (835.1240)	Soil column leaching	CR	CR	CR	CR	NR	TGAI	6	n/a
163-2 (835.1410)	Laboratory volatilization from soil	CR	NR	CR	CR	NR	TEP	7	n/a
161-1 (835.2120)	Hydrolysis	CR	CR	CR	CR	NR	TGAI	6	n/a
161-1 (835.4100)	Aerobic soil metabolism	CR	NR	CR	CR	NR	TGAI	6	n/a
161-2 (835.2240)	Photodegradation in water	CR	CR	CR	CR	NR	TGAI	6	n/a
161-3 (835.2410)	Photodegradation on soil	CR	NR	CR	CR	NR	TGAI	6	n/a
162-2 (835.4200)	Anaerobic soil metabolism	CR	NR	NR	NR	NR	TGAI	6	n/a

162-4 (835.4300)	Aerobic aquatic metabolism	CR	CR	CR	CR	NR	TGAI	6	n/a
162-3 (835.4400)	Anaerobic aquatic metabolism	CR	CR	NR	NR	NR	TGAI	6	n/a
880.4425	Dispenser - water leaching	CR	NR	CR	CR	NR	EP	8	n/a
Nontarg	get Plant								
850.4225	Seedling emergence	R	R	NR	R	NR	TGAI	9	n/a
850.4250	Vegetative vigor	R	R	NR	R	NR	TGAI	9	n/a
Tier III		<u>,                                     </u>							
Aquatio	Fauna Chronic, Life	Cycle, and	Field Studies						N/A
850.1300 850.1400 850.1500	Freshwater fish/invertebrate testing	CR	CR	NR	CR	NR	TGAI	10	n/a
850.1025 850.1035 850.1045 850.1055 850.1350 850.1400 850.1500	Marine/Estuarine fish/invertebrate animal testing	CR	CR	NR	CR	NR	TGAI	10	n/a
850.1950	Aquatic field fish/invertebrate testing	CR	CR	NR	CR	NR	EP	10	n/a
Terrest	trial Wildlife							,	N/A
850.2300	Avian Reproduction	CR	CR	NR	CR	NR	TGAI	11	n/a
850.2400	Wild mammal acute toxicity	CR	CR	NR	CR	NR	TGAI	11	n/a

850.2500	Terrestrial field testing	CR	CR	NR	CR	NR	ÉP	11	n/a
Benefic	cial Insects								
850.3040	Field testing for Pollinators	CR	CR	NR	CR	NR	TEP	12	n/a
Nontar	get Plants								
850.4225 850.4250 850.4300 850.4450	Nontarget plant	CR	CR	NR	CR	NR	TGAI	13	n/a

- (e) Test notes. The following test notes are applicable to the data requirements for biochemical pesticides nontarget organisms and environmental fate as referenced in the last column of the table contained in paragraph (d) of this section.
- 1. Required for the EP when any end-use formulation may contain other ingredients that may be toxic to nontarget organisms or to support arthropod pheromones that would be available to avian wildlife, (e.g., a granular product).
- 2. Tests for pesticides intended solely for indoor application would be required on a case-by-case basis, depending on use pattern, physical/chemical properties, production volume, and other pertinent factors.
  - 3. Not required for any use groups if the pesticide is highly volatile (estimated volatility >5 ×10-satm m³/mol).
- 4. Preferred test species are Upland game, waterfowl, or passerine for avian acute oral toxicity studies; Upland game and waterfowl for avian dietary studies; and coldwater fish species for acute freshwater fish studies.
  - 5. Required for the EP when the end-use formulation may contain other ingredients that may be toxic to nontarget organisms.
  - 6. Required on a case-by-case basis when results from Tier I studies indicate adverse effects.
- 7. Required when results of any one or more of the nontarget organism studies in Tier I indicate potential adverse effects on nontarget organisms and the pesticide is to be applied on land. In view of methological difficulties with the study of photodegradation in air, prior consultation with the Agency regarding the protocol is recommended before the test is performed.
- 8. Required when results of any one or more of the nontarget organism studies in Tier I indicate potential adverse effects on nontarget organisms and the pesticide is to be applied in a passive dispenser.

- 9. Required to support registration of known phytotoxicants, i.e., herbicides, desiccants, defoliants, and plant growth regulators.
- 10. Required if environmental fate characteristics indicate that the estimated environmental concentration of the pesticide in the aquatic environment is >0.01 of any EC<sub>50</sub> or LC<sub>50</sub> determined in the aquatic nontarget organism testing.
  - 11. Required if either of the following criteria are met:
- i. Environmental fate characteristics indicate that the estimated concentration of the pesticide in the terrestrial environment is >0.20 the avian dietary LC<sub>∞</sub> or equal to >0.20 the avian oral single dose LD<sub>∞</sub> (converted to ppm).
- ii. The pesticide or any of its metabolites or degradation products are stable in the environment to the extent that potentially toxic amounts may persist in the avian or mammalian feed.
- 12. Required when results of Tier I nontarget organism studies indicate potential adverse effects on nontarget insects and results of Tier II tests indicate exposure of nontarget insects. Additional insect species may have to be tested if necessary to address issues raised by use patterns and potential exposure of important nontarget insect species, (e.g., threatened or endangered species).
- 13. Required if the product is expected to be transported from the site of application by air, soil, or water. The extent of movement would be determined by the results of the Tier II environmental fate studies.
- 14. Required depending on pesticide mode of action, method and timing of application, and results of any available efficacy data. Typically the honeybee acute toxicity guideline (guideline 850,3020) satisfies this requirement, however, additional nontarget insect species may have to be tested if necessary to address issues raised by use patterns and potential exposure of important nontarget insect species, (e.g., endangered species.)

Product Performance, Series OCSPP 810.

Submitted product performance studies in MRID 501202-09 through MRID 501202-13



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 16, 2017

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

OPP Decision Number: D-534726

EPA File Symbol or Registration Number: 33025-A

Product Name: Cleanburn EPA Receipt Date: 06-Oct-2017 EPA Company Number: 33025

Company Name: LAMPLIGHT FARMS, INC.

GEORGIA ANASTASIOU LEWIS & HARRISON, LLC AGENT FOR LAMPLIGHT FARMS, INC. 122 C STREET, NW - SUITE 505 WASHINGTON, DC 20001-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

#### Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: B673

NEW PRODUCT; MUP OR END USE PRODUCT WITH UNREGISTERED SOURCE OF THE ACTIVE INGREDIENT; CITATION OF TGAI DATA PREVIOUSLY REVIEWED AND ACCEPTED BY THE AGENCY; REQUIRES AN AGENCY DETERMINATION THAT THE CITED DATA SUPPORTS THE NEW PRODUCT; REQUIRES AN AGENCY DETERMINATION THAT THE CITED DATA SUPPORTS THE NEW PRODUCT;

No additional payment is due at this time. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703)-305-5659.

Sincerely,

~/ 5/

Front End Processing Staff

Information Technology & Resources Management Division



## Fee for Service {1010151r~

This package includes the following	for Division
<ul><li>New Registration</li><li>Amendment</li></ul>	BPPD RD
Studies? Fee Waiver? volpay % Reduction:	Risk Mgr. 91
Receipt No. S-	1010151
EPA File Symbol/Reg. No.	33025-A
Pin-Punch Date:	10/6/2017
This item is NOT subject to	o FFS action.
Action Code:	Parent/Child Decisions:
Requested: B673	
Granted: B673	
Amount Due: \$	
Inert Cleared for Intended Use	Uncleared Inert in Product
Reviewer: Andrew Bryceland Remarks:	Date: 10//3//7

Receipt for Section	on 3						<u>د الله</u>	500 A
s	1010151	Milestone Ema	iil georgia@lewisharri	son com				
Regulatory Type.	Product Registra	ation - Section 3	4		()	(∰)	Print Letter	
Application Type.	New Registration	1		Fee For Service		○ No	Enter More Information	
Company	33025 LAMP	LIGHT FARMS IN	ic		(🏝 Yes	⊕ No	Tracking	
Company	DAME	EIGHT FARMS IN		٧				
Risk Manager	Biologicals & Po	llution Prevention	Division, PM Team 91		٠.,			
Product #	33025-A	Product Name: 4	Cleanburn					
Me Too   `   Section3:		Me Too Prod Name	uct					
Application D	ate. 13-Sep-201	? <b>(2)</b>	OPP Recivd Date:	06-Oct-2017		Receipt Conte	ent į	^
Front End D	ate 12-Oct-2017	7 ∰ Risk	Manager Send Date		6	Study	•	
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## Pay.gov

#### Receipt

#### Your payment is submitted

Pay.gov Tracking ID: 2659FLNV Agency Tracking ID: 75339780217

Form Name: Pesticide Registration Improvement Act - Prepayment

Application Name: PRIA Service Fees

#### Payment Information

Payment Type: Bank account (ACH)

Payment Amount: \$5,107.00

Transaction Date: 10/06/2017 06:01:01 PM EDT

Payment Date: 10/10/2017 Registration Number:

Company Name: Lamplight Farms, Inc.

Company Number: 33025

Action Code: B673
Account Information

Account Holder Name: David Lewis Routing Number: 051400549 Account Number: \*\*\*\*\*\*\*\*\*\*\*8515

#### **Email Confirmation Receipt**

Confirmation Receipts have been emailed to:

georgia@lewisharrison.com

Please read instructions on reverse before	ore completing form.		Form Approve	ed, OMB No. 2070	-0060, Approval expires 05-31-98
<b>Ω</b> EDΛ	United State	es	Regist	tration	OPP Identifier Number
EPA Env	ironmental Prote	ction Agenc			}
	Washington, DC	20460	☐ Other:		
	Applic	ation for Pe	esticide - Sectio		· · _ · _ · _ · _ · _ · _ · _ · _
Company/Product Number			Product Manager		3. Proposed Classification
33025			Bryceland		
Company/Product (Name)     CLEANBURN		PM# BPPD			None Restricted
<ol><li>Name and Address of Applicant (ii Lamplight Farms, Inc.</li></ol>	nclude ZIP Code)				with FIFRA Section 3(c)(3)
c/o Lewis & Harrison, LLC		1 3 7 7 7	my product is simil	lar or identical	in composition and labeling
122 C ST. NW, Suite 505 Washington, DC 20001		to:	Reg. No <u>Tiki I</u>	neart Ranaliant &	Monarch 1101A
- washington, DC 20001			.cg. 140 <u>IIRI I</u>	Habat Kepeneni I	ilonajon Figura
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		Secti	on - II		
Amendment – Explain below.			= '		Agency letter dated
Resubmission in response to A	gency letter dated		"Me Too" Applic		
Notification - Explain below.  Explanation: Use additiona	nago/s) if necessa	ny (Enr Soct	Other - Explain		
Explanation. Ose additional		• •	duct Registratio		
			3673, Fee \$5107		
		•		A.	
	Conne	mation of F	ayment Enclose	u 	
		Section	on - III		
Material This Product Will Be Page					0.7
Child-Resistant Packaging Yes*	Unit Packaging Yes		Water Soluble Pac	kaging	Type of Container     Metal
⊠ No	No No		⊠ No	ĺ	Plastic
	If "Yes"	No. per	if "Yes"	No. per	Glass
*Certification must	Unit Packaging wgt	container	Package wgt.	container	Paper
be submitted					Other (Specify)
Location of Net Contents Informa	1	(s) Retail Contain			f Label Directions
Label	ainer	2- 128 f	l. oz.	On Labe	ing accompanying product
6. Manner in Which Label is Affixed	to Product	nograph	Other	On label	ing accompanying product
o. Manual III Vinan Edge is rained	🛚 Pa	per glued enciled	<u> </u>		
			on - IV		
Contact Point (Complete items die	rectly below for identifica			essary, to process	this application)
Name Georgia Anastasiou, Lewis	s & Harrison, LLC,	Title			Telephone No. (Include Area
122 C Street NW, Ste. 505, Washir	ngton, DC 20001		Agent		Code) 202-393-3903 x. 119
I certify that the statements I have no acknowledge that any knowingly fall under applicable law.	Certific nade on this form and all se or misleading stateme	attachments the	reto are true, accurate hable by fine or impriso	and complete. I	6. Date Application Received (Stamped)
2. Signature		3. Title	Agost		
Stogia anavasion			Agent		
4. Typed Name Georgia Anastas	iou	5. Date	September 11, 20	17	7 !
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EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete

White- EPA File Copy (original) Yellow- Applicant Copy

# LEWIS & HARRISON

122 C Street, N.W. Suite 505 Washington, DC 20001

telephone 202,393,3903 fax 202,393,3906

Consultants in Government Affairs

September 13, 2017

E-Submission

Document Processing Desk (REGFEE) Office of Pesticide Programs (7504P) US Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

ATTENTION:

Andrew Bryceland

Biopesticides and Pollution Prevention Division

SUBJECT:

Lamplight Farms, Inc. CLEANBURN (33025- )

Application to Register End Use Product

PRIA Category B673

Dear Mr. Bryceland:

On behalf of Lamplight Farms, Inc., I am submitting an application to register the end-use product, CLEANBURN. This product contains 3% citronella oil as the active ingredient and will be used as an outdoor torch fuel to repel flying insects. This product is similar in composition and use to the currently registered product *Tiki Insect Repellent Monarch 1101A*, EPA Reg. No. 33025-3, with the exception of the inert ingredients.

In support of this registration, I am submitting product chemistry data and acute toxicity data. As for efficacy data requirements Lamplight wishes to use the "cite-all" option. Both *Tiki Insect Repellent Monarch 1101A, EPA Reg. No. 33025-3* and CLEANBURN contain 3% oil of citronella as the active ingredient. As stated above, with the exception of the inert ingredients, which are expected to have no impact on efficacy, this formula is the same as the formula for *Tiki Insect Repellent Monarch 1101A, EPA Reg. No. 33025-3*.

I believe the PRIA Category code for this registration falls under B673 since the source of TGA1 for the citronella oil is the same as *Tiki Insect Repellent Monarch 1101A*.

In support of this application, enclosed please find the following documents:

- 1) Application for Pesticide Registration;
- 2) Payment Receipt;
- 3) Propose Product Label;
- 4) Basic and Alternate#1 Confidential Statements of Formula dated 9/11/2017;

- 5) Certification with Respect to Data Compensation;
- 6) End-Use Data Matrix (both Public and Agency copies);
- 7) Generic Data Matrix (both Public and Agency copies);
- 8) Transmittal Document; and,
- 9) Product Chemistry & Acute Toxicity data.

Thank you for in advance for your help with this request. If you have any questions about this submission, please contact me at (202) 393-3903 ext. 19 or by email at georgia@lewisharrison.com.

Sincerely,

Swara anastasion

Georgia Anastasiou Agent for,

Lamplight Farms, Inc.

cc: Bill Tobin (Lamplight)

Luke Zeitler (Lamplight)

#### **EPA TRANSMITTAL DOCUMENT**

SUBMISSION DATED: September 11, 2017 STUDY SUBMITTER: Lamplight Farms

4900 North Lilly Road

Menomonee Falls, WI 53051

PRODUCT: CLEANBURN

EPA REG. NO.: 33025-

**REGULATORY ACTION: PRIA Code B673** 

STUDIES SUBMITTED:

MRID: 50389801 CLEANBURN: Product Properties (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison; 9 pages, including 27 page confidential

appendix.

MRID: 50389802 <u>CLEANBURN: Preliminary Analysis</u> (September 11, 2017) by Georgia

Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50389803 Physical and Chemical Characteristics of Cleanburn with 3% Citronella:

Color, Physical State, Odor, Oxidation/Reduction, Flammability,

Storage Stability, Corrision Characteristics, pH, Viscosity and Relative Denisty (September 19, 2017) by Brian A. Roe, Case Laboratories; Study

No: 4780-06; 14 pages.

MRID: 50389804 <u>CLEANBURN: Summary of Acute Toxicity Data</u> (September 11, 2017)

by Georgia Anastasiou, Lewis & Harrison; 4 pages.

MRID: 50389805 <u>CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL: Acute</u>

Oral Toxicity - Up and Down Porcedure in Rats (September 1, 2017) by

Carolyn Lowe, Product Safety Labs; Study No: 46226; 14 pages.

MRID: 50389806 <u>CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL</u>:

Primary Eye Irritation in Rabbits (September 1, 2017) by Carolyn Lowe,

Product Safety Labs; Study No: 46227; 15 pages.

MRID: 50389807 CLEANBURN TORCH FUEL WITH 3% CITRONELLA OIL:

Primary Skin Irritation in Rabbits (September 1, 2017) by Carolyn

Lowe, Product Safety Labs; Study No: 46228; 17 pages.

MRID: 50389808 PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL:

Acute Oral Toxicity - Up and Down Porcedure in Rats (September 1,

2017) by Melissa Slonina, Product Safety Labs; Study No: 46229; 14

pages.

MRID: 50389809

PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL: Acute Oral Toxicity – Primary Eye Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46230; 17

pages.

MRID: 50389810 PALM KERNEL METHLY ESTER WITH 3% CITRONELLA OIL:

Acute Oral Toxicity - Primary Skin Irritation in Rabbits (September 1, 2017) by Melissa Slonina, Product Safety Labs; Study No: 46231; 17 pages

MRID: 50389811 CLEANBURN: Waiver Request for Acute Toxicity Testing (September

11, 2017) by Georgia Anastasiou, Lewis & Harrison; 5 pages.

COMPANY CONTACT: Georgia Anastasiou

Lewis & Harrison, LLC 123 C Street NW, Suite 505 Washington, DC 20001 (202) 393-3903 x119

georgia@lewisharrison.com



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

Do not send the form to this address.							
Certification with Respect to Citation of Data							
Applicant's/Registrant's Name, Address and Telephone N Lamplight Farms Inc, 4900 North Lilly Road, Menom	!	EPA Registration Number/ File Symbol 33025					
Active Ingredient(s) and/or representative test compound Citronella Oil (PC code 021901)	d(s):		Date September 11, 2017				
General use pattern(s) (list all those claimed for this product using 40 CFR Part 158)  Outdoor non-food  Product Name CLEANBURN							
NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).							
I am responding to a Data Call-In Notice, and have Matrix form should be used for this purpose).							
SECTION I: METHO	D OF DATA SUPPO	RT (Check or	ne method only)				
☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).  ☐ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).							
SECTION SECTIO	ON II: GENERAL OF	FER TO PA	Υ				
[Required if using the cite-all method or when using the cite-all	ite-all option under the	selective me	thod to satisfy one or more data requirements)				
☑ I hereby offer and agree to pay compensation, to oth FIFRA.	er persons, with regard	d to the appro	val of this application, to the extent required by				
s	ECTION III: CERTIFI	CATION					
I certify that this application for registration, this or cited in the application for registration, the form for reselective method is indicated in Section I, this application effects of this product or an identical or substantially sind data that would be required to be submitted under the dapplication sought the initial registration of a product of	eregistration, or this Da on is supported by all on nilar product, or one o lata requirements in e	ata Call-In res data in the Ag r more of the ffect on the da	ency's files that (1) concern the properties or ingredients in this product; and (2) is a type of ate of approval of this application if the				
I certify that for each exclusive use study cited I have obtained the written permission of the original su			egistration, that I am the original submitter or that				
I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.							
I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.							
I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.							
Signature Lugia anavasion	Date Sept. 11, 2017	1	nted Name and Title nastasiou, Agent for Lamplight Farms Inc.				

# PRIA 3 – 21 Day Content Screen Review Worksheet (EPA/OPP Use Only)

21 Day Screen Start Date: 10 -6-17	September 2012
Experts in-Processing Signature:	No Yes Date Date
EPA Reg. Number: 33025-A	EPA Receipt Date: //) - 6 - 1 7

EPA	Reg. Number: 33025-A EPA Receipt Date: 10	6-1	7					
	Items for Review	-:- <u></u>	<u> </u>	Yes	No	N/A*		
1	Application Form (EPA Form 8570-1) signed & complete including package type							
2	Confidential Statement of Formula all boxes completed, form s dated (EPA Form 8570-4)	igned, a	ınd	X				
	a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)	yes	no					
3	Certification with Respect to Citation of Data (EPA Form 8576 completed and signed (N/A if 100% repack)		l	X		***************************************		
	Certificate and data matrix consistent			X				
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)							
_	If applicable, is there a letter of Authorization for exclusive use or	ıly.						
4	Formulator's Exemption Statement (EPA Form 8570-27) comparing signed (N/A if source is unregistered or applicant owns the technic		nd			X		
	Data Matrix (EPA Form 8570-35) both internal and external cop completed and signed (N/A if 100% repack)	ies ( <u>PR</u>	<u>98-5</u> )	X				
5	a) Selective Method (Fee category experts use)	yes	no					
	b) Cite-All (Fee category experts use)			-				
	c) Applicant owns all data (Fee category experts use)					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
6	5 Copies of <u>Label</u> ( <u>Electronic labels on CD</u> are encouraged an available)	d guida	nce is	X				
7	Is the data package consistent with PR Notice 86-5			X				
8	Notice of Filing included with petitions					X		

9	If applicable for conventional applications, reduced risk rationale	人
	Required Data and/or data waivers. See Footnote C.	
	a) List study (or studies) not included with application	
10		
Comi	ments: Y Oscumentation (Pas) 17ac 1	
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#### \* N/A - Not Applicable

#### Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are strongly encouraged to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency even if a product is currently registered by consulting the <u>inert Web site</u> and if the inert is not approved nor has an application pending with the Agency, to obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at <a href="inertsbranch@epa.gov">inertsbranch@epa.gov</a> and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the <a href="Chief of Microbial Pesticides Branch">Chief of Microbial Pesticides Branch</a>.

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

#### Unapproved Inerts Identified on CSFs

#### All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
  number, providing documentation that the inert has been approved, or
  removing the unapproved inert from the CSF or replacing it with one that is
  approved for the application's uses; or
- 2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
- 3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
- 4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

#### Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the inert's identity or CAS
  number, providing documentation that the inert has been approved, or
  removing the unapproved inert from the CSF or replacing it with one that is
  approved for the application's uses; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

#### PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

- Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
- 2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
- 3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

- B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.
- C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

#### Kang, Ji Yeon

From:

Georgia Anastasiou < georgia@lewisharrison.com>

Sent:

Tuesday, October 17, 2017 4:07 PM

To: Cc: Kang, Ji Yeon Ashe, Anthony

Subject:

RE: Submission to EPA: Cleanburn (EPA Reg. No. 33025-A).

Attachments:

50389802\_Data\_PreliminaryAnalysis\_rev\_confstatement.pdf

#### Dear Joyce,

My apologies for the error. I corrected the confidentially statement to claim no confidentially. That is the only change I made to the attached study - I'm not sure if it is easier to extract the page or send you the entire study, so I attached the entire study just in case.

#### Sincerely,

Georgia Anastasiou Lewis & Harrison, LLC 122 C Street, N.W., Suite 505 Washington, DC 20001 P: 202-393-3903 x 119 (Tu,W&F) P. 240-442-2877 (M&Th) F: 202-393-3906

From: Kang, Ji Yeon [mailto:Kang.Joyce@epa.gov]

Sent: Tuesday, October 17, 2017 8:52 AM

**To:** Georgia Anastasiou **Cc:** Ashe, Anthony

Subject: Submission to EPA: Cleanburn (EPA Reg. No. 33025-A).

Dear Ms. Anastasiou,

My name is Joyce Kang and I am a contractor with the EPA. I am contacting you in regards to your submission in support of the product Cleanburn (EPA Reg. No. 33025-A). We have found a deficiency with the submissions that will need to be addressed:

For MRID 503898(02) 'Cleanburn: Preliminary Analysis Discussion,' when the claim is made that a study includes
confidential business information, such information must be excised from the body of the study and confined to
a separate Confidential Attachment. We cannot accept your claim that the entire text of the this study falls
within the scope of FIFRA 10(d)(1)(A), (B), and (C).

Please send the revised study before Oct 30<sup>th</sup> so that we may further process your submission. After Oct 30<sup>th</sup>, please direct all correspondence/corrections to the appropriate EPA Risk Manager. If you have any questions, please do not hesitate to contact me.

Joyce Kang

#### Master Label

### **CLEANBURN**

#### Torch Fuel

[Alternate Brand Name	TIKI Brand Paradise In	Your Backyard C	lean Rurn with	Citronella
(Mittinate Dianu Haine	. I IIVI DIAHU FAIAUISE III	TOULDACKVAIU C	lean Duill Will	Citionicia

Active Ingredient:	
Oil of Citronella*	3%
Other Ingredients	
Total	

#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

NET CONTENTS: [1pt 2 fl oz/18 fl oz (532mL)] [1qt/32 fl oz (946mL)] [1qt 18 fl oz/50 fl oz (1.48L)] [2qt/64 fl oz (1.89L)] [3qt 4 fl oz/100 fl oz (2.96L)] [1 gai/128 fl oz (3.78L)]

Product of Singapore, Blended and Botted in the USA Lamplight Farms Inc. W140 N4900 Lilly Road Menomonee Falls, Wi 53051-7035

EPA Reg. No. 33025-# EPA Est. No. ©20##

Read [Entire Label] [All Warnings] [Back Panel] CAREFULLY.
[KEEP OUT OF REACH OF CHILDREN AND PETS.] [NEVER LEAVE A BURNING TORCH
UNATTENDED.] [FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR
PROPERTY DAMAGE.] [DO NOT DRINK.]

<sup>\*</sup> Contains no less than 0.56% geraniol

CLEANBURN EPA Reg. No. 33025-#

#### Optional Marketing Claims - continued

- [No More Smoky Mess!]
- [[Create] [A] [Convenient] Paradise In Your Backyard]
- [For use in TIKI<sup>®</sup> Brand torches]
- [[For best results] Use in TIKI® brand torches]
- [For best results use several torches [around an area] [to surround an area] [throughout your backyard]]
- [[For best results] [properly] refill torch canister when it is 2/3 empty]
- [No Smoky Mess]
- [Traditional Tabletorch & Fuel]
- [Clean Burn]
- [TIKI® Brand Clean Burn System]

Questions or comments? Call 1-888-473-1088 [or visit our website at www.tikibrand.com.]